



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF500ACSENSE PULSEALIGN OFF09:25:36 PM Oct 10, 2019 Center Freq 155.012500 MHzCenter Freq: 155.012500 MHzRadio Std: None PASSTrig: Free RunAvg: 100.00% of 10Radio Device: BTS IF Gain: Low#Atten: 40 dB Ref Offset 27 dB Ref 37.0 dBm Total Power Ref35.58 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.69</td><td>(-10.58)</td><td>-200.0</td><td>26.30</td><td>(-6.96)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.93</td><td>(-5.49)</td><td>-11.85 k</td><td>-39.96</td><td>(-1.80)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.74</td><td>(-19.74)</td><td>-18.30 k</td><td>-36.20</td><td>(-16.20)</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></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq155.012500 MHz CF Step12.000 kHzMan Freq Offset0 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 50.0 AC SENSE PULSE ALIGN OFF 01:52:30 PM Oct 10, 2019 Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 18.0 8.00 38.0 48.0 Center 136 MHz Span 120 kHz Total Power Ref 36.88 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.20</td><td>(-1.75)</td><td>0.0</td><td>36.94</td><td>(-1.01)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.98</td><td>(-5.94)</td><td>-12.30 k</td><td>-37.76</td><td>(-4.99)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.88</td><td>(-16.88)</td><td>-13.05 k</td><td>-37.53</td><td>(-17.53)</td><td>18.35 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 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.20	(-1.75)	0.0	36.94	(-1.01)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-37.98	(-5.94)	-12.30 k	-37.76	(-4.99)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.88	(-16.88)	-13.05 k	-37.53	(-17.53)	18.35 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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CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:50:36 PM Oct 10, 2019 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 18.0 8.00 38.0 48.0 Center 155 MHz Span 120 kHz Total Power Ref 36.94 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.04</td><td>(-1.89)</td><td>0.0</td><td>37.03</td><td>(-0.90)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.64</td><td>(-6.49)</td><td>-12.45 k</td><td>-35.82</td><td>(-7.04)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.03</td><td>(-16.03)</td><td>-16.70 k</td><td>-35.88</td><td>(-15.88)</td><td>16.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.04	(-1.89)	0.0	37.03	(-0.90)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.64	(-6.49)	-12.45 k	-35.82	(-7.04)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.03	(-16.03)	-16.70 k	-35.88	(-15.88)	16.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—		
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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 01:50:38 PM Oct 10, 2019 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 -18.00 -38.00 -48.00 Spectrum Center 155 MHz Span 120 kHz Total Power Ref 37.05 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>33.32</td><td>(-4.61)</td><td>0.0</td><td>35.80</td><td>(-2.13)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.68</td><td>(-2.17)</td><td>-12.50 k</td><td>-37.05</td><td>(-3.54)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.23</td><td>(-15.23)</td><td>-16.65 k</td><td>-34.64</td><td>(-14.64)</td><td>16.05 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 155.012500 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	33.32	(-4.61)	0.0	35.80	(-2.13)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.68	(-2.17)	-12.50 k	-37.05	(-3.54)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.23	(-15.23)	-16.65 k	-34.64	(-14.64)	16.05 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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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:48:05 PM Oct 10, 2019 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 -18.00 -38.00 -48.00 Spectrum Center 174 MHz Span 120 kHz Total Power Ref 36.83 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.94</td><td>(-1.95)</td><td>0.0</td><td>36.92</td><td>(-0.98)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.15</td><td>(-6.79)</td><td>-12.20 k</td><td>-38.16</td><td>(-6.08)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.02</td><td>(-18.02)</td><td>-13.20 k</td><td>-38.14</td><td>(-18.14)</td><td>13.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 173.987500 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	35.94	(-1.95)	0.0	36.92	(-0.98)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.15	(-6.79)	-12.20 k	-38.16	(-6.08)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.02	(-18.02)	-13.20 k	-38.14	(-18.14)	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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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:48:26 PM Oct 10, 2019 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 -18.00 -38.00 -48.00 Spectrum Center 174 MHz Span 120 kHz Total Power Ref 37.00 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.26</td><td>(-5.63)</td><td>0.0</td><td>35.70</td><td>(-2.20)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.12</td><td>(-1.31)</td><td>-12.40 k</td><td>-33.71</td><td>(-3.08)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.97</td><td>(-12.97)</td><td>-12.65 k</td><td>-32.98</td><td>(-12.98)</td><td>12.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 173.987500 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	32.26	(-5.63)	0.0	35.70	(-2.20)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.12	(-1.31)	-12.40 k	-33.71	(-3.08)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.97	(-12.97)	-12.65 k	-32.98	(-12.98)	12.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 136.012500 MHz Trig: Free Run #Atten: 40 dB Ref Offset 27 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 136 MHz Span 120 kHz Total Power Ref 32.86 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>31.97</td><td>(-1.94)</td><td>0.0</td><td>32.95</td><td>(-0.97)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-4.81)</td><td>-12.40 k</td><td>-41.68</td><td>(-4.15)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.86</td><td>(-21.86)</td><td>-19.35 k</td><td>-42.04</td><td>(-22.04)</td><td>19.45 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> Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled (STATUS)	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.97	(-1.94)	0.0	32.95	(-0.97)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.60	(-4.81)	-12.40 k	-41.68	(-4.15)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.86	(-21.86)	-19.35 k	-42.04	(-22.04)	19.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 136.012500 MHz Trig: Free Run Avg: 100.00% of 10 Ref Offset 27 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 136 MHz Span 120 kHz Total Power Ref 32.92 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>29.81</td><td>(-4.10)</td><td>0.0</td><td>31.74</td><td>(-2.18)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.83</td><td>(-3.20)</td><td>-12.35 k</td><td>-37.83</td><td>(-0.11)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.68</td><td>(-18.68)</td><td>-12.55 k</td><td>-37.68</td><td>(-17.68)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved (STATUS)	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.81	(-4.10)	0.0	31.74	(-2.18)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.83	(-3.20)	-12.35 k	-37.83	(-0.11)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.68	(-18.68)	-12.55 k	-37.68	(-17.68)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	29.81	(-4.10)	0.0	31.74	(-2.18)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-39.83	(-3.20)	-12.35 k	-37.83	(-0.11)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-38.68	(-18.68)	-12.55 k	-37.68	(-17.68)	12.50 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Trig: Free Run #Atten: 40 dB Ref Offset 27 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 155 MHz Span 120 kHz Total Power Ref 32.66 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>31.65</td><td>(-2.05)</td><td>0.0</td><td>32.74</td><td>(-0.96)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.16</td><td>(-7.79)</td><td>-11.90 k</td><td>-41.45</td><td>(-7.35)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.14</td><td>(-23.14)</td><td>-15.65 k</td><td>-43.06</td><td>(-23.06)</td><td>26.05 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> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled (STATUS)	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.65	(-2.05)	0.0	32.74	(-0.96)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.16	(-7.79)	-11.90 k	-41.45	(-7.35)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.14	(-23.14)	-15.65 k	-43.06	(-23.06)	26.05 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	31.65	(-2.05)	0.0	32.74	(-0.96)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.16	(-7.79)	-11.90 k	-41.45	(-7.35)	12.00 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-43.14	(-23.14)	-15.65 k	-43.06	(-23.06)	26.05 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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 22.0 32.0 42.0 52.0 Center 155 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>28.91</td><td>(-4.79)</td><td>0.0</td><td>31.51</td><td>(-2.19)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.16</td><td>(-1.43)</td><td>-12.50 k</td><td>-41.04</td><td>(-3.30)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.37</td><td>(-19.37)</td><td>-13.20 k</td><td>-39.04</td><td>(-19.04)</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> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.91	(-4.79)	0.0	31.51	(-2.19)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.16	(-1.43)	-12.50 k	-41.04	(-3.30)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.37	(-19.37)	-13.20 k	-39.04	(-19.04)	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	—	(—)	—	—	(—)	—
			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	28.91	(-4.79)	0.0	31.51	(-2.19)	50.00																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-39.16	(-1.43)	-12.50 k	-41.04	(-3.30)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-39.37	(-19.37)	-13.20 k	-39.04	(-19.04)	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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 22.0 32.0 42.0 52.0 Center 174 MHz Span 120 kHz Total Power Ref 32.74 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>31.03</td><td>(-2.71)</td><td>0.0</td><td>32.79</td><td>(-0.95)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.77</td><td>(-5.08)</td><td>-12.50 k</td><td>-38.79</td><td>(-4.36)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.03</td><td>(-22.03)</td><td>-15.50 k</td><td>-41.65</td><td>(-21.65)</td><td>15.65 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> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.03	(-2.71)	0.0	32.79	(-0.95)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.77	(-5.08)	-12.50 k	-38.79	(-4.36)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.03	(-22.03)	-15.50 k	-41.65	(-21.65)	15.65 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)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	31.03	(-2.71)	0.0	32.79	(-0.95)	50.00																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-42.77	(-5.08)	-12.50 k	-38.79	(-4.36)	12.05 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-42.03	(-22.03)	-15.50 k	-41.65	(-21.65)	15.65 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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 22.0 32.0 42.0 52.0 Center 174 MHz Span 120 kHz Total Power Ref 32.94 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>27.42</td><td>(-6.32)</td><td>0.0</td><td>31.56</td><td>(-2.18)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.15</td><td>(-0.18)</td><td>-12.40 k</td><td>-41.10</td><td>(-3.40)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.59</td><td>(-19.59)</td><td>-16.65 k</td><td>-38.75</td><td>(-18.75)</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></table> Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.42	(-6.32)	0.0	31.56	(-2.18)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.15	(-0.18)	-12.40 k	-41.10	(-3.40)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.59	(-19.59)	-16.65 k	-38.75	(-18.75)	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	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

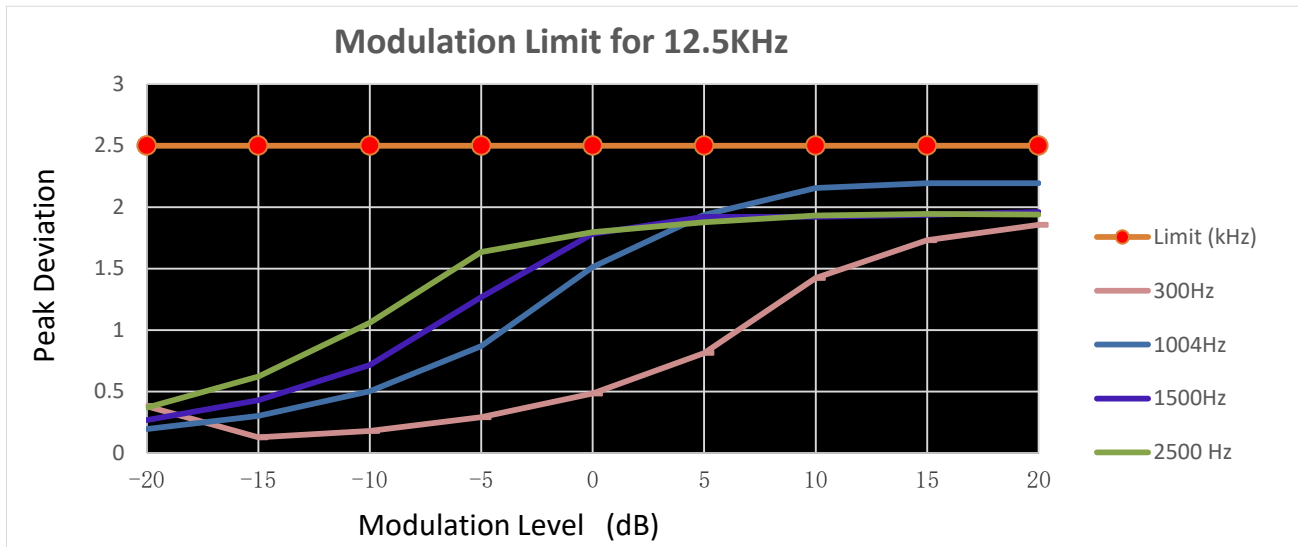
**Appendix D:Modulation Limit**

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	0.381	0.196	0.27	0.37	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.128	0.302	0.429	0.622	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.18	0.502	0.717	1.06	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.291	0.869	1.267	1.635	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.484	1.513	1.782	1.797	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.813	1.936	1.922	1.878	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.423	2.156	1.92	1.931	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.731	2.195	1.937	1.944	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.855	2.195	1.961	1.94	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

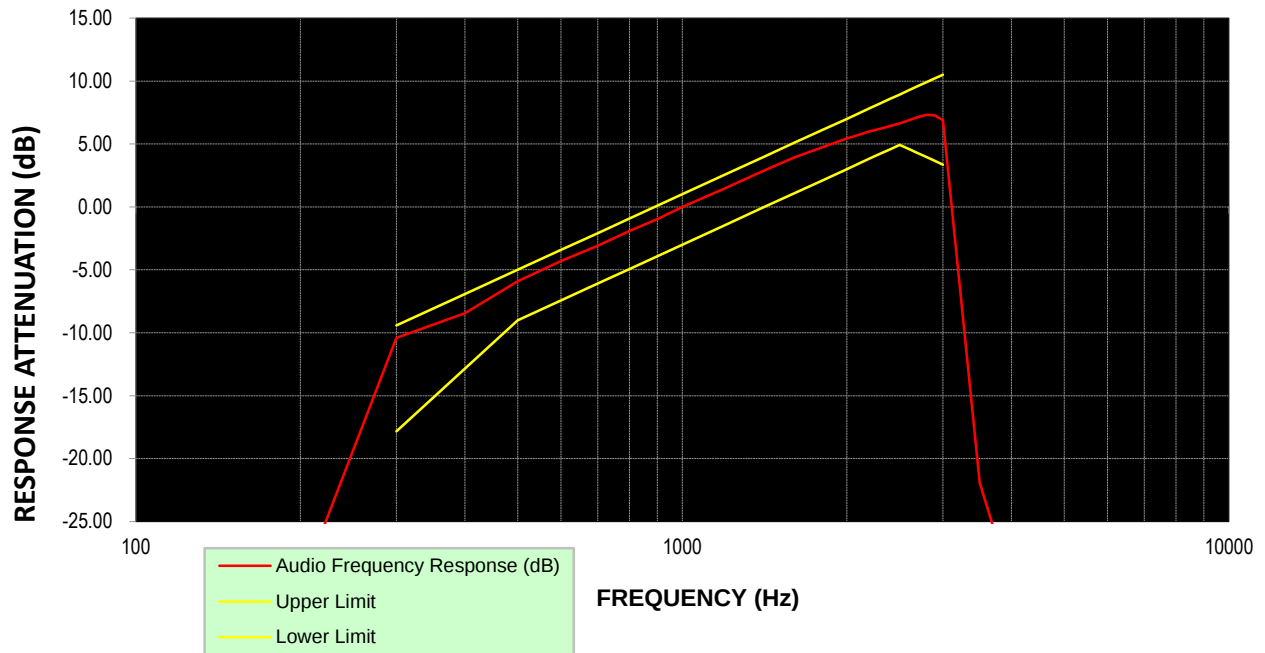
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-30.26	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-30.25	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-10.40	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.44	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-5.90	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.32	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.09	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.91	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.98	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.50	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.83	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.91	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.73	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.43	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.72	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.00	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.21	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	6.43	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	6.62	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.89	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.14	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.33	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.26	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.89	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-21.93	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-30.14	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-30.02	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-30.12	-	-	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**

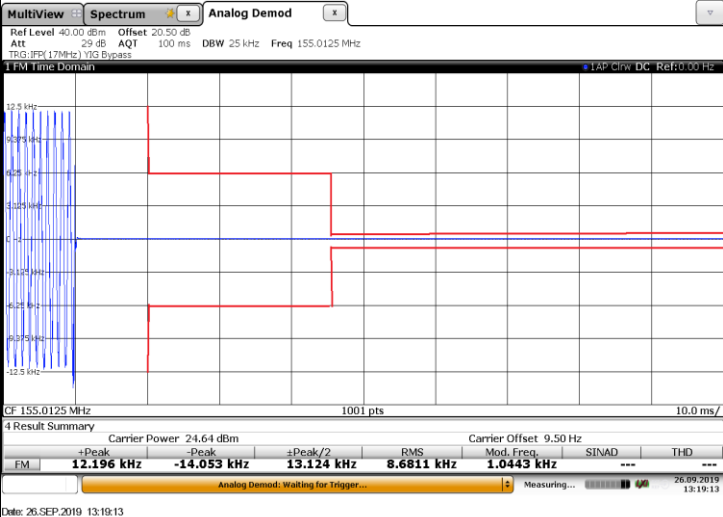
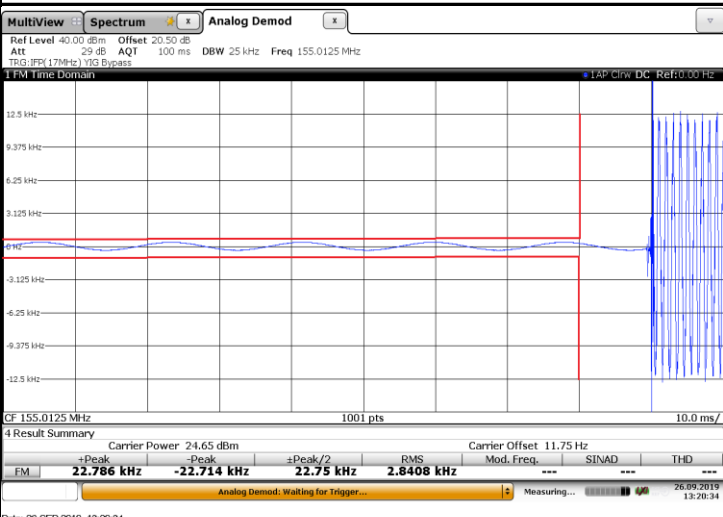
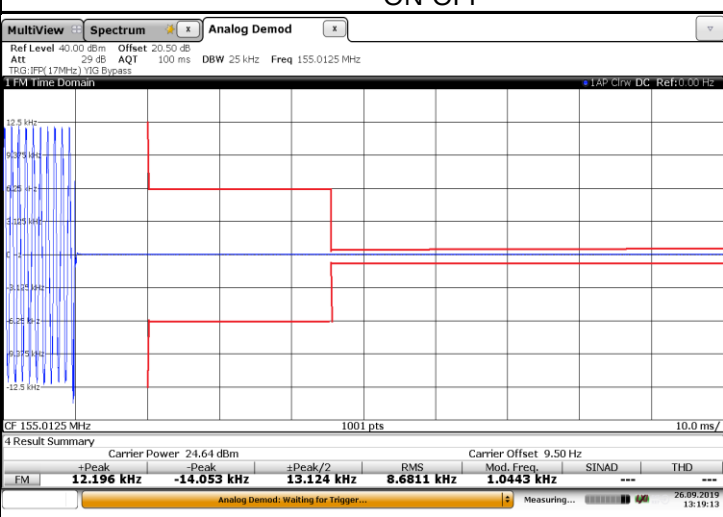
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M2}	CH _H		
TX-DNH	4FSK	V _N	-30	<u>0.084</u>	0.080	0.080	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.074	0.071	0.067	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.061	0.063	0.056	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.050	0.051	0.048	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.039	0.038	0.039	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.026	0.029	0.028	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.040	0.037	0.041	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.055	0.052	0.051	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.070	0.066	0.059	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.079	0.071	0.078	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.069	0.063	0.067	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.060	0.055	0.059	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.048	0.047	0.050	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.038	0.037	0.042	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.029	0.027	0.031	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.044	0.036	0.043	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.056	0.043	0.050	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.064	0.056	0.058	±5.0	PASS
TX-ANH	FM	V _N	-30	<u>0.242</u>	0.238	0.212	±5.0	PASS
TX-ANH	FM	V _N	-20	0.231	0.229	0.201	±5.0	PASS
TX-ANH	FM	V _N	-10	0.220	0.221	0.188	±5.0	PASS
TX-ANH	FM	V _N	0	0.211	0.213	0.179	±5.0	PASS
TX-ANH	FM	V _N	10	0.202	0.202	0.167	±5.0	PASS
TX-ANH	FM	V _N	20	0.194	0.189	0.158	±5.0	PASS
TX-ANH	FM	V _N	30	0.205	0.199	0.171	±5.0	PASS
TX-ANH	FM	V _N	40	0.217	0.214	0.185	±5.0	PASS
TX-ANH	FM	V _N	55	<u>0.225</u>	0.222	0.192	±5.0	PASS
TX-ANL	FM	V _N	-30	<u>0.255</u>	0.238	0.223	±5.0	PASS
TX-ANL	FM	V _N	-20	0.245	0.227	0.210	±5.0	PASS
TX-ANL	FM	V _N	-10	0.235	0.215	0.200	±5.0	PASS
TX-ANL	FM	V _N	0	0.226	0.207	0.187	±5.0	PASS
TX-ANL	FM	V _N	10	0.213	0.194	0.175	±5.0	PASS
TX-ANL	FM	V _N	20	<u>0.200</u>	0.182	0.165	±5.0	PASS
TX-ANL	FM	V _N	30	0.212	0.189	0.178	±5.0	PASS
TX-ANL	FM	V _N	40	0.227	0.204	0.189	±5.0	PASS
TX-ANL	FM	V _N	55	<u>0.235</u>	0.219	0.200	±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 _{M2}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.026	0.029	0.028	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.065	0.066	<u>0.073</u>	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.055	0.049	<u>0.056</u>	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.029	0.027	0.031	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.071	0.068	0.077	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.048	0.048	<u>0.051</u>	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.194	0.189	0.158	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.235	0.237	0.202	±5.0	PASS
TX-ANH	FM	V _H	T _N	<u>0.225</u>	0.222	0.190	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.200	0.182	0.165	±5.0	PASS
TX-ANL	FM	V _L	T _N	<u>0.237</u>	0.222	0.204	±5.0	PASS
TX-ANL	FM	V _H	T _N	<u>0.231</u>	0.207	0.197	±5.0	PASS



Appendix H:Transmitter Frequency Behavior

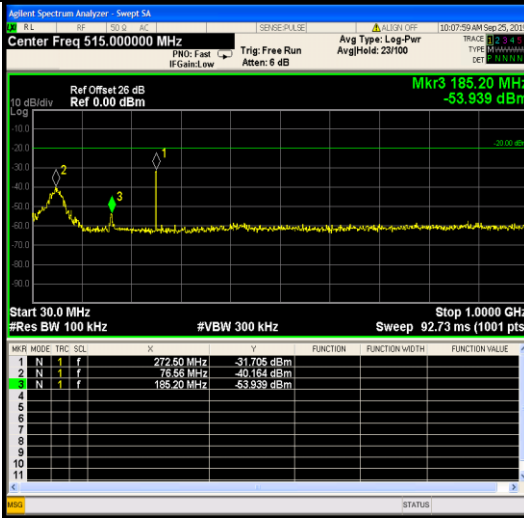
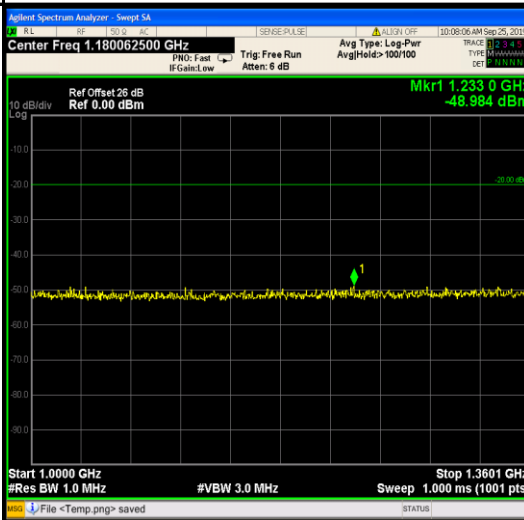
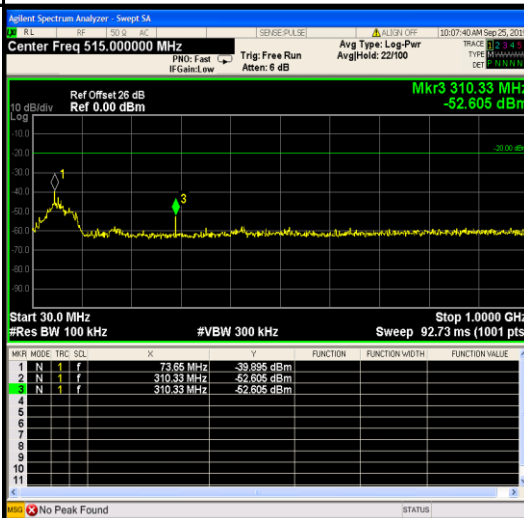
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	 OFF-ON
TX-DNH	4FSK	CH _{M2}	 ON-OFF
TX-ANH	FM	CH _{M2}	 OFF-ON



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT														
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRIG: FPI 17 MHz 100 Bps 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms 4 Result Summary <table border="1"> <thead> <tr> <th></th> <th>Peak</th> <th>Carrier Power</th> <th>Carrier Offset</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>22.786 kHz</td> <td>24.65 dBm</td> <td>11.75 Hz</td> <td>22.75 kHz</td> <td>2.8408 kHz</td> <td></td> </tr> </tbody> </table> Analog Demod: Waiting for Trigger... Measuring... Date: 26.SEP.2019 13:20:34		Peak	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	22.786 kHz	24.65 dBm	11.75 Hz	22.75 kHz	2.8408 kHz	
	Peak	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD											
FM	22.786 kHz	24.65 dBm	11.75 Hz	22.75 kHz	2.8408 kHz												
			ON-OFF														

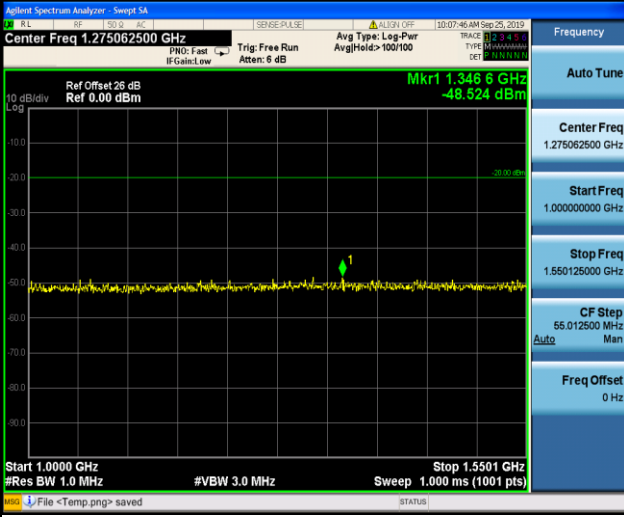
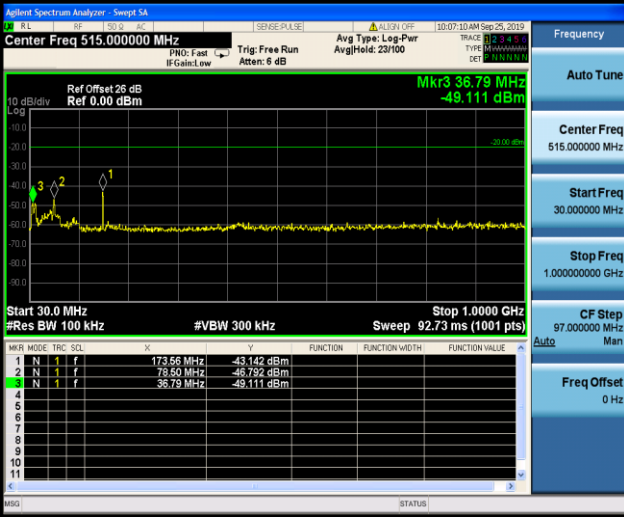
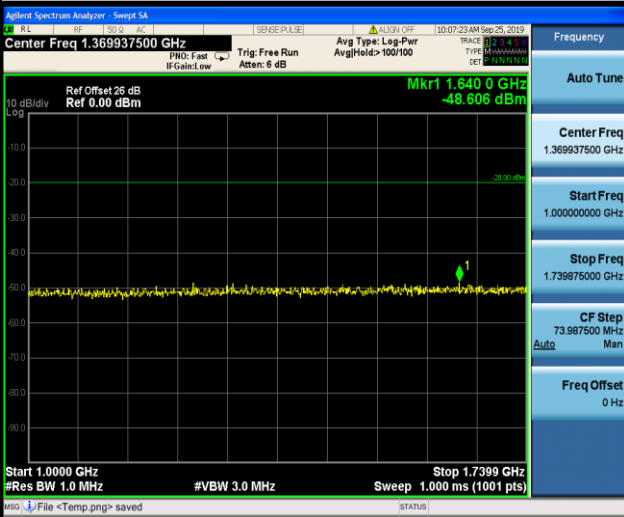


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _L	<table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SOL</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>272.60 MHz</td><td>-31.706 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>76.66 MHz</td><td>-40.164 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>185.20 MHz</td><td>-53.939 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	272.60 MHz	-31.706 dBm				2	N	1	f	76.66 MHz	-40.164 dBm				3	N	1	f	185.20 MHz	-53.939 dBm			
MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
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MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
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TX-DNH	4FSK	CH _{M2}	<table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SOL</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>73.66 MHz</td><td>-39.895 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>310.33 MHz</td><td>-52.605 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>310.33 MHz</td><td>-52.605 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	73.66 MHz	-39.895 dBm				2	N	1	f	310.33 MHz	-52.605 dBm				3	N	1	f	310.33 MHz	-52.605 dBm			
MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	73.66 MHz	-39.895 dBm																																		
2	N	1	f	310.33 MHz	-52.605 dBm																																		
3	N	1	f	310.33 MHz	-52.605 dBm																																		

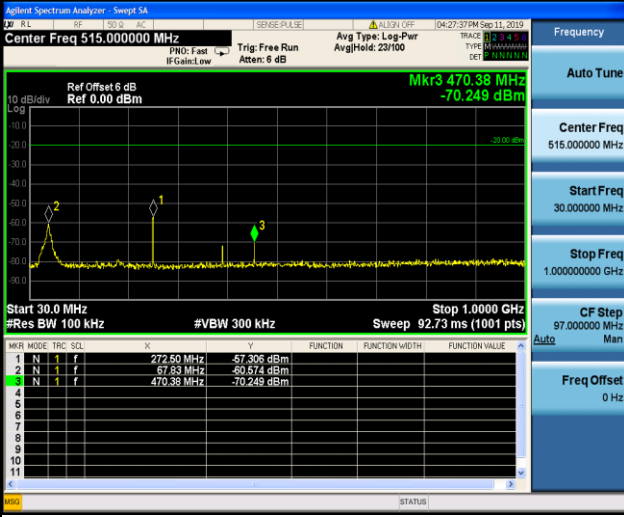
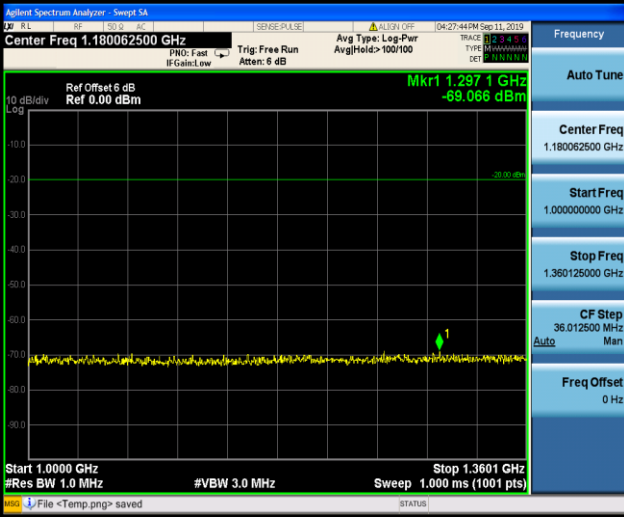
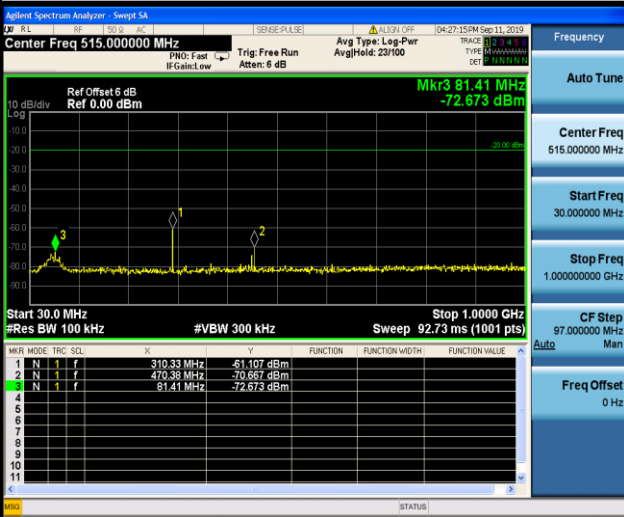


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 30MHz~1GHz
TX-DNH	4FSK	CH _H	 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	 30MHz~1GHz
TX-ANH	FM	CH _L	 1GHz~10th Harmonic
TX-ANH	FM	CH _{M2}	 30MHz~1GHz



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 1.275062500 GHz Ref Offset 6 dB Ref 0.00 dBm Mkr1 1.3323 GHz -68.952 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.5501 GHz Frequency Auto Tune Center Freq 1.275062500 GHz Start Freq 1.000000000 GHz Stop Freq 1.550125000 GHz CF Step 55.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 6 dB Ref 0.00 dBm Mkr3 47.46 MHz -69.094 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz 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 _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 1.369937500 GHz Ref Offset 6 dB Ref 0.00 dBm Mkr1 1.7095 GHz -68.144 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.7399 GHz Frequency Auto Tune Center Freq 1.369937500 GHz Start Freq 1.000000000 GHz Stop Freq 1.739875000 GHz CF Step 73.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic

----End of Report----