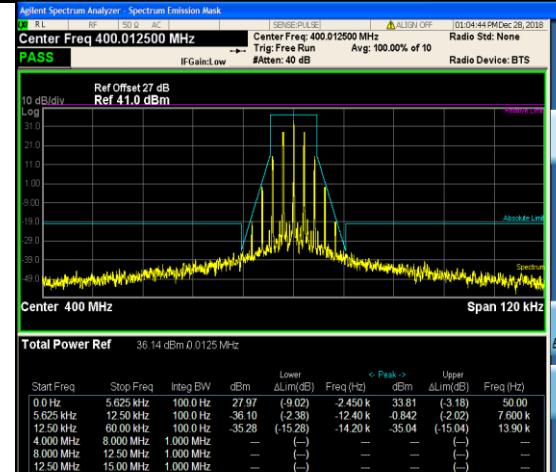
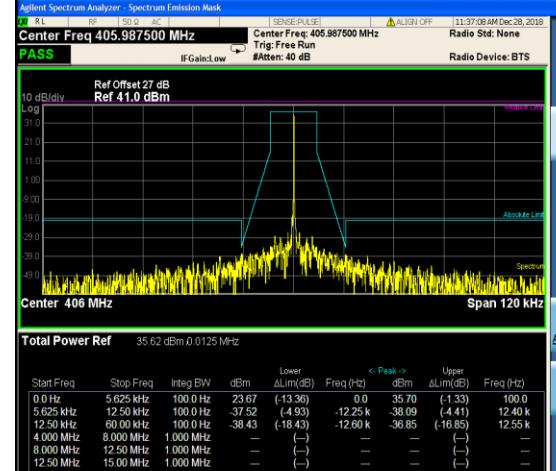
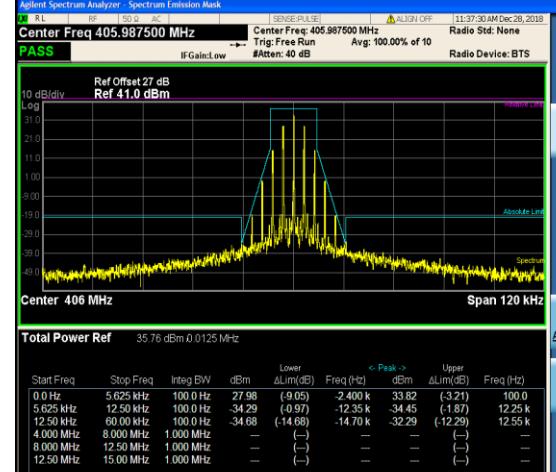


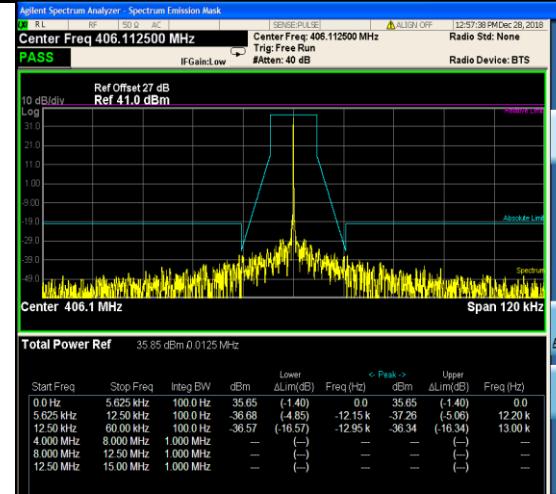
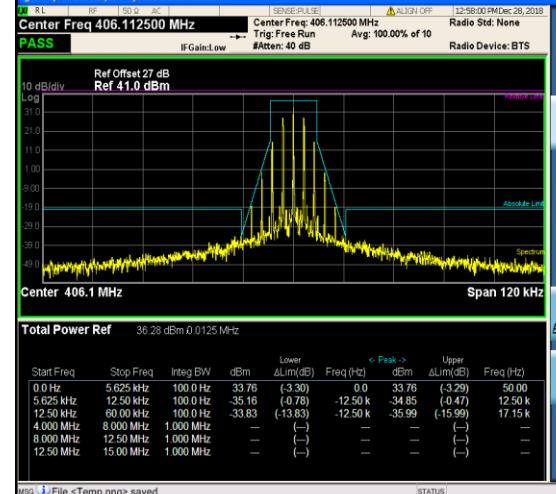
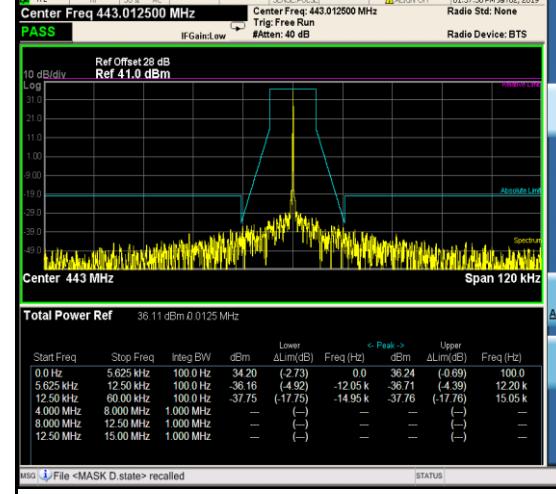


## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH <sub>L</sub>		<p>Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH <sub>M1</sub>		<p>Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz</p>
TX-ANH	FM	CH <sub>M1</sub>		<p>Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz</p>



## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																									
TX-ANH	FM	CH <sub>M2</sub>	 <table border="1"><caption>Total Power Ref 35.85 dBm 0.0125 MHz</caption><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>&lt; Peak -&gt;</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>35.65</td><td>(-1.40)</td><td>0.0</td><td>35.65</td><td>(-1.40) 0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>36.68</td><td>(-4.85)</td><td>-12.15 k</td><td>37.26</td><td>(-5.06) 12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>36.57</td><td>(-16.57)</td><td>-12.95 k</td><td>36.34</td><td>(-16.34) 13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>—</td></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></tbody></table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.65	(-1.40)	0.0	35.65	(-1.40) 0.0	5.625 kHz	12.50 kHz	100.0 Hz	36.68	(-4.85)	-12.15 k	37.26	(-5.06) 12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	36.57	(-16.57)	-12.95 k	36.34	(-16.34) 13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	—	Frequency Center Freq CF Step Freq Offset
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)																																																					
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TX-ANH	FM	CH <sub>M2</sub>	 <table border="1"><caption>Total Power Ref 36.28 dBm 0.0125 MHz</caption><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>&lt; Peak -&gt;</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>33.76</td><td>(-3.30)</td><td>0.0</td><td>33.76</td><td>(-3.29) 50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>35.16</td><td>(-0.78)</td><td>-12.50 k</td><td>34.85</td><td>(-0.47) 12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>33.83</td><td>(-13.83)</td><td>-12.50 k</td><td>35.99</td><td>(-15.99) 17.15 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></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></tbody></table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.76	(-3.30)	0.0	33.76	(-3.29) 50.00	5.625 kHz	12.50 kHz	100.0 Hz	35.16	(-0.78)	-12.50 k	34.85	(-0.47) 12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	33.83	(-13.83)	-12.50 k	35.99	(-15.99) 17.15 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	—	(—)	—	(—)	—	Frequency Center Freq CF Step Freq Offset
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)																																																					
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	—																																																					
TX-ANH	FM	CH <sub>M3</sub>	 <table border="1"><caption>Total Power Ref 36.11 dBm 0.0125 MHz</caption><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>&lt; Peak -&gt;</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.20</td><td>(-2.73)</td><td>0.0</td><td>36.24</td><td>(-0.69) 100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>36.16</td><td>(-4.92)</td><td>-12.05 k</td><td>36.71</td><td>(-4.39) 12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>37.75</td><td>(-17.75)</td><td>-14.95 k</td><td>37.76</td><td>(-17.76) 15.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>—</td></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></tbody></table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.20	(-2.73)	0.0	36.24	(-0.69) 100.0	5.625 kHz	12.50 kHz	100.0 Hz	36.16	(-4.92)	-12.05 k	36.71	(-4.39) 12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	37.75	(-17.75)	-14.95 k	37.76	(-17.76) 15.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	—	Frequency Center Freq CF Step Freq Offset
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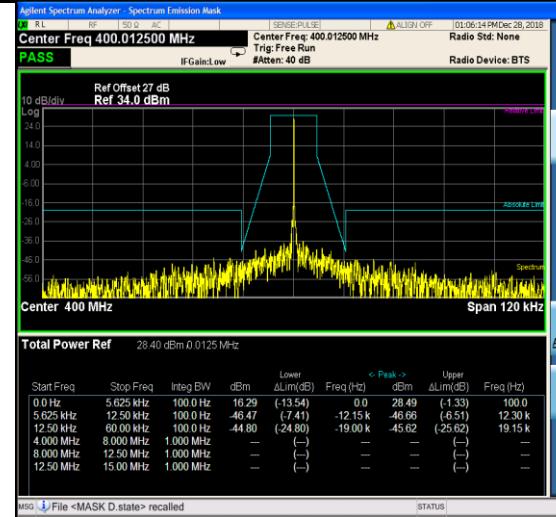
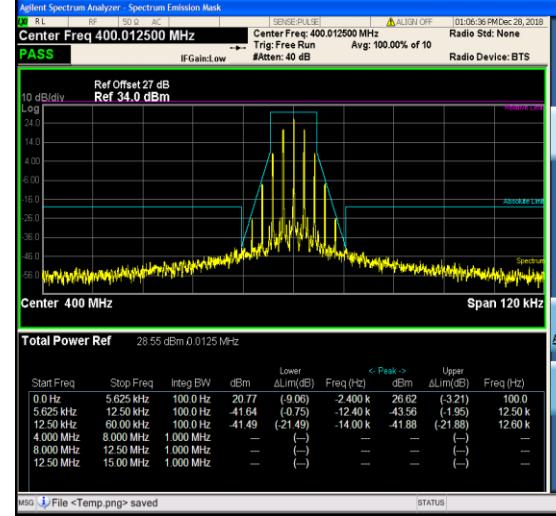
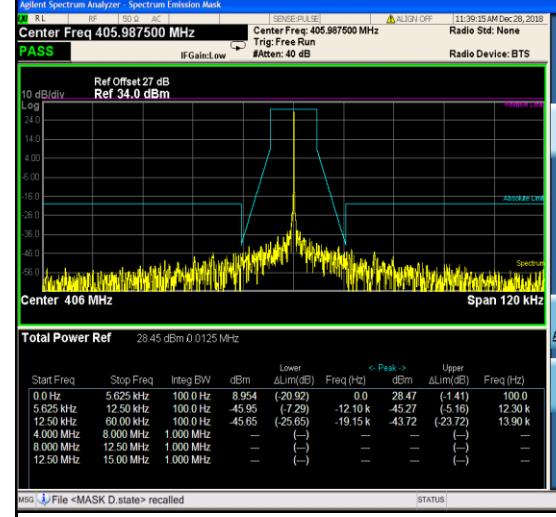


## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-ANH	FM	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 443.012500 MHz</p> <p>Total Power Ref 36.20 dBm 0.0125 MHz</p> <table border="1"><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dEbw</th><th>Lower ΔLIM(dB)</th><th>&lt; Peak &gt;</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>32.42</td><td>(-4.51)</td><td>0.0</td><td>34.31</td><td>(-2.62) 100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>34.23</td><td>(-0.99)</td><td>-12.45 k</td><td>-17.97</td><td>(-0.91) 10.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>35.50</td><td>(-15.50)</td><td>-12.70 k</td><td>-32.51</td><td>(-12.51) 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></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></tbody></table>	Start Freq	Stop Freq	Integ BW	dEbw	Lower ΔLIM(dB)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.42	(-4.51)	0.0	34.31	(-2.62) 100.0	5.625 kHz	12.50 kHz	100.0 Hz	34.23	(-0.99)	-12.45 k	-17.97	(-0.91) 10.10 k	12.50 kHz	60.00 kHz	100.0 Hz	35.50	(-15.50)	-12.70 k	-32.51	(-12.51) 13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz</p> <p>Total Power Ref 35.24 dBm 0.0125 MHz</p> <table border="1"><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dEbw</th><th>Lower ΔLIM(dB)</th><th>&lt; Peak &gt;</th><th>Upper ΔLIM(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.56</td><td>(-1.72)</td><td>0.0</td><td>34.89</td><td>(-1.60) 50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>41.25</td><td>(6.46)</td><td>-12.45 k</td><td>-42.05</td><td>(6.90) 12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>37.22</td><td>(-17.22)</td><td>-12.95 k</td><td>-37.29</td><td>(-17.29) 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></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></tbody></table>	Start Freq	Stop Freq	Integ BW	dEbw	Lower ΔLIM(dB)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.56	(-1.72)	0.0	34.89	(-1.60) 50.00	5.625 kHz	12.50 kHz	100.0 Hz	41.25	(6.46)	-12.45 k	-42.05	(6.90) 12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	37.22	(-17.22)	-12.95 k	-37.29	(-17.29) 13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz</p> <p>Total Power Ref 35.17 dBm 0.0125 MHz</p> <table border="1"><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dEbw</th><th>Lower ΔLIM(dB)</th><th>&lt; Peak &gt;</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>32.84</td><td>(-3.44)</td><td>0.0</td><td>32.84</td><td>(-3.44) 0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>35.83</td><td>(-0.67)</td><td>-12.50 k</td><td>-36.82</td><td>(-1.66) 12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>36.19</td><td>(-16.19)</td><td>-12.70 k</td><td>-34.46</td><td>(-14.46) 13.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td></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></tbody></table>	Start Freq	Stop Freq	Integ BW	dEbw	Lower ΔLIM(dB)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.84	(-3.44)	0.0	32.84	(-3.44) 0.0	5.625 kHz	12.50 kHz	100.0 Hz	35.83	(-0.67)	-12.50 k	-36.82	(-1.66) 12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	36.19	(-16.19)	-12.70 k	-34.46	(-14.46) 13.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)
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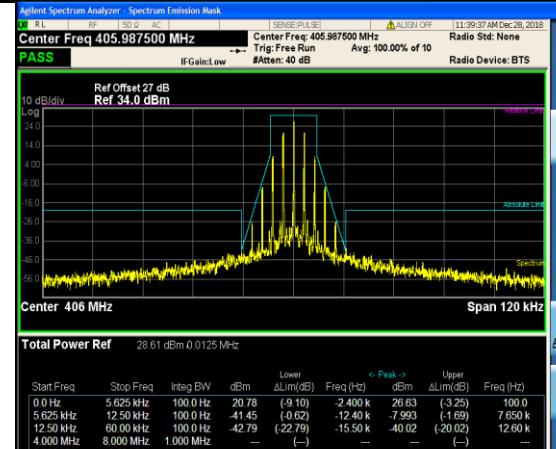
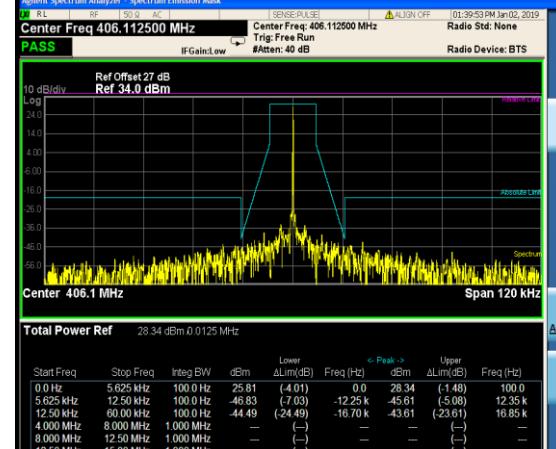
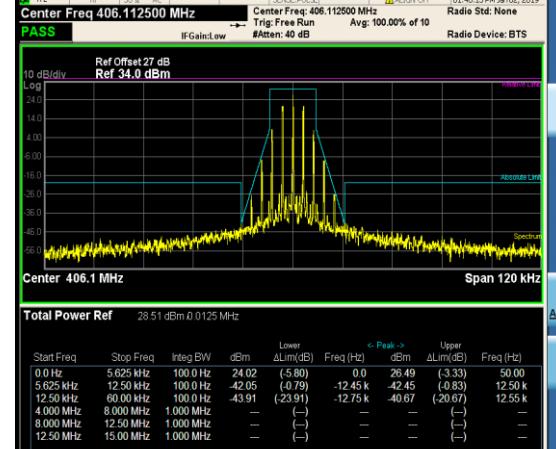


## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANL	FM	CH <sub>L</sub>		<p>Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz</p>
TX-ANL	FM	CH <sub>L</sub>		<p>Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz</p>
TX-ANL	FM	CH <sub>M1</sub>		<p>Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz</p>

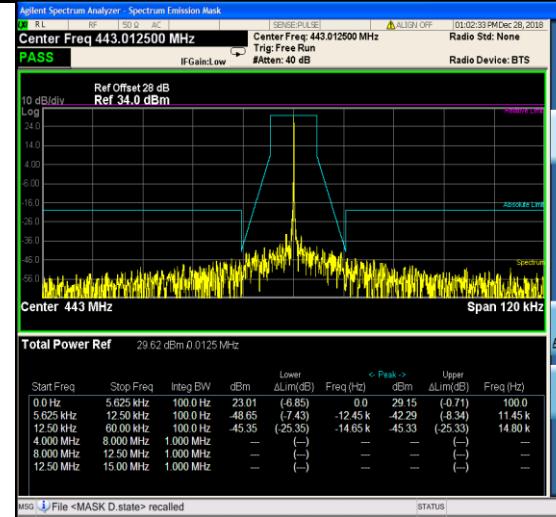
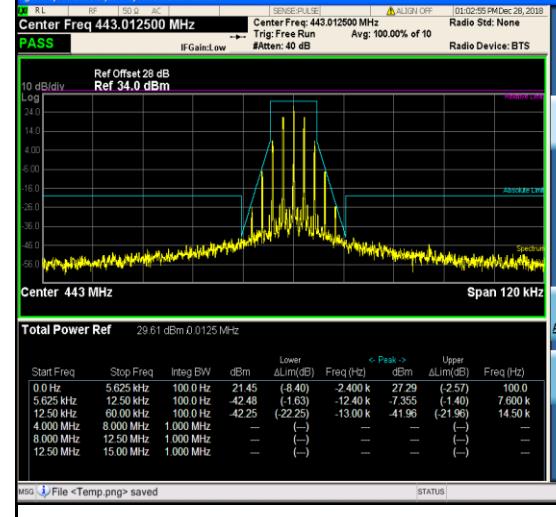
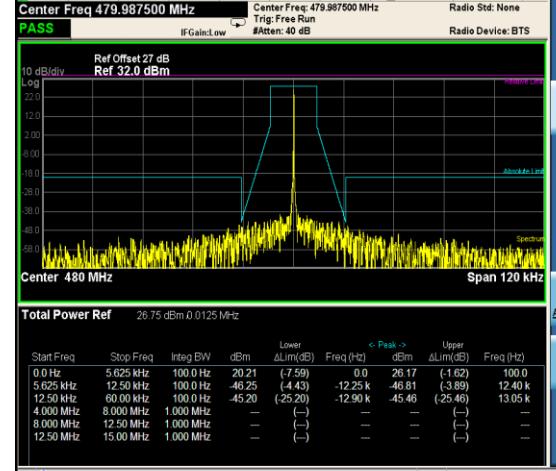


## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																			
TX-ANL	FM	CH <sub>M1</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Total Power Ref 28.61 dBm 0.0125 MHz</p> <table border="1"><caption>Total Power Ref</caption><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>&lt; Peak &gt;</th><th>Upper ΔLIM(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.78</td><td>(-9.10)</td><td>-2.400 k</td><td>26.63</td><td>(-3.25)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.45</td><td>(-0.62)</td><td>-12.40 k</td><td>-7.993</td><td>(-1.69)</td><td>7.650 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.79</td><td>(-22.79)</td><td>-15.50 k</td><td>-40.02</td><td>(-20.02)</td><td>12.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>--</td><td>(--)</td><td>--</td><td>--</td><td>(--)</td><td>--</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>--</td><td>(--)</td><td>--</td><td>--</td><td>(--)</td><td>--</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>--</td><td>(--)</td><td>--</td><td>--</td><td>(--)</td><td>--</td></tr></tbody></table> <p>MSG: File &lt;Temp.png&gt; saved STATUS:</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.78	(-9.10)	-2.400 k	26.63	(-3.25)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.45	(-0.62)	-12.40 k	-7.993	(-1.69)	7.650 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.79	(-22.79)	-15.50 k	-40.02	(-20.02)	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	--	(--)	--	--	(--)	--	Frequency	Center Freq 405.987500 MHz	CF Step 12.000 kHz Auto	Freq Offset 0 Hz
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak >	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 <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Total Power Ref 28.34 dBm 0.0125 MHz</p> <table border="1"><caption>Total Power Ref</caption><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>&lt; Peak &gt;</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>25.81</td><td>(4.01)</td><td>0.0</td><td>28.34</td><td>(-1.48)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.83</td><td>(7.03)</td><td>-12.25 k</td><td>-45.61</td><td>(-5.08)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.49</td><td>(-24.49)</td><td>-16.70 k</td><td>-43.61</td><td>(-23.61)</td><td>16.85 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> <p>MSG: File &lt;MASK.D.state&gt; recalled STATUS:</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.81	(4.01)	0.0	28.34	(-1.48)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.83	(7.03)	-12.25 k	-45.61	(-5.08)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.49	(-24.49)	-16.70 k	-43.61	(-23.61)	16.85 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	--	(--)	--	--	(--)	--	Frequency	Center Freq 406.112500 MHz	CF Step 12.000 kHz Auto	Freq Offset 0 Hz
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)																																																														
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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-ANL	FM	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Total Power Ref 28.51 dBm 0.0125 MHz</p> <table border="1"><caption>Total Power Ref</caption><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>&lt; Peak &gt;</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>24.02</td><td>(5.80)</td><td>0.0</td><td>26.49</td><td>(-3.33)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.05</td><td>(-0.79)</td><td>-12.45 k</td><td>-42.45</td><td>(-0.83)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.91</td><td>(-23.91)</td><td>-12.75 k</td><td>-40.67</td><td>(-20.67)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>--</td><td>(--)</td><td>--</td><td>--</td><td>(--)</td><td>--</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>--</td><td>(--)</td><td>--</td><td>--</td><td>(--)</td><td>--</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>--</td><td>(--)</td><td>--</td><td>--</td><td>(--)</td><td>--</td></tr></tbody></table> <p>MSG: File &lt;Temp.png&gt; saved STATUS:</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.02	(5.80)	0.0	26.49	(-3.33)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.05	(-0.79)	-12.45 k	-42.45	(-0.83)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.91	(-23.91)	-12.75 k	-40.67	(-20.67)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	8.000 MHz	12.50 MHz	1.000 MHz	--	(--)	--	--	(--)	--	12.50 MHz	15.00 MHz	1.000 MHz	--	(--)	--	--	(--)	--	Frequency	Center Freq 406.112500 MHz	CF Step 12.000 kHz Auto	Freq Offset 0 Hz
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLIM(dB)	Freq (Hz)	< Peak >	Upper ΔLIM(dB)	Freq (Hz)																																																														
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## Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																			
TX-ANL	FM	CH <sub>M3</sub>	 Total Power Ref 29.62 dBm 0.0125 MHz <table border="1"><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>&lt; Peak -&gt;</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>23.01</td><td>(-6.85)</td><td>0.0</td><td>29.15</td><td>(0.71)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>48.65</td><td>(-7.43)</td><td>-12.45 k</td><td>-42.29</td><td>(8.34)</td><td>11.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>45.35</td><td>(-25.35)</td><td>-14.65 k</td><td>-45.33</td><td>(-25.33)</td><td>14.80 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 <MASK D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.01	(-6.85)	0.0	29.15	(0.71)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	48.65	(-7.43)	-12.45 k	-42.29	(8.34)	11.45 k	12.50 kHz	60.00 kHz	100.0 Hz	45.35	(-25.35)	-14.65 k	-45.33	(-25.33)	14.80 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	—	(—)	—	—	(—)	—	Frequency	Center Freq 443.012500 MHz	CF Step 12.000 kHz	Freq Offset 0 Hz
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	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-ANL	FM	CH <sub>M3</sub>	 Total Power Ref 29.61 dBm 0.0125 MHz <table border="1"><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>&lt; Peak -&gt;</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>21.45</td><td>(-8.40)</td><td>-2.400 k</td><td>27.29</td><td>(2.57)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>42.48</td><td>(-1.63)</td><td>-12.40 k</td><td>7.355</td><td>(-1.40)</td><td>7.600 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>42.25</td><td>(-22.25)</td><td>-13.00 k</td><td>-41.98</td><td>(-21.96)</td><td>14.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSG: File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.45	(-8.40)	-2.400 k	27.29	(2.57)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	42.48	(-1.63)	-12.40 k	7.355	(-1.40)	7.600 k	12.50 kHz	60.00 kHz	100.0 Hz	42.25	(-22.25)	-13.00 k	-41.98	(-21.96)	14.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	Frequency	Center Freq 443.012500 MHz	CF Step 12.000 kHz	Freq Offset 0 Hz
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)																																																														
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																														
TX-ANL	FM	CH <sub>H</sub>	 Total Power Ref 26.75 dBm 0.0125 MHz <table border="1"><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>&lt; Peak -&gt;</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.21</td><td>(-7.59)</td><td>0.0</td><td>26.17</td><td>(-1.62)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>46.25</td><td>(-4.43)</td><td>-12.25 k</td><td>-46.81</td><td>(-3.89)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>45.20</td><td>(-25.20)</td><td>-12.90 k</td><td>-45.46</td><td>(-25.46)</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></tbody></table> MSG: File <MASK D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.21	(-7.59)	0.0	26.17	(-1.62)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	46.25	(-4.43)	-12.25 k	-46.81	(-3.89)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	45.20	(-25.20)	-12.90 k	-45.46	(-25.46)	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	—	(—)	—	—	(—)	—	Frequency	Center Freq 479.987500 MHz	CF Step 12.000 kHz	Freq Offset 0 Hz
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak ->	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 <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>RL RF 50 Ω AC SENSEPULSE ALIGN OFF 11:35:43 AM Dec 28, 2018</p> <p>Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None</p> <p>PASS Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS</p> <p>IF Gain:Low #Attenu: 40 dB</p> <p>Ref Offset 27 dB Ref 32.0 dBm</p> <p>Log 10 dB/div</p> <p>22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0</p> <p>Relative Log Absolute Log</p> <p>2.0 12.0 22.0 32.0 42.0 52.0</p> <p>Span 120 kHz</p> <p>Center 480 MHz</p> <p>Total Power Ref 26.74 dBm 0.0125 MHz</p> <table border="1"><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>&lt; Peak &gt;</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>18.57</td><td>(-9.23)</td><td>-2.450 k</td><td>24.41</td><td>(-3.38) 50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.06</td><td>(-1.78)</td><td>-12.45 k</td><td>27.92</td><td>(-1.72) 10.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.82</td><td>(-24.82)</td><td>-14.65 k</td><td>-42.10</td><td>(-22.10) 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></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></tbody></table> <p>MSG: File &lt;Temp.png&gt; saved STATUS:</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.57	(-9.23)	-2.450 k	24.41	(-3.38) 50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.06	(-1.78)	-12.45 k	27.92	(-1.72) 10.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.82	(-24.82)	-14.65 k	-42.10	(-22.10) 12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																				
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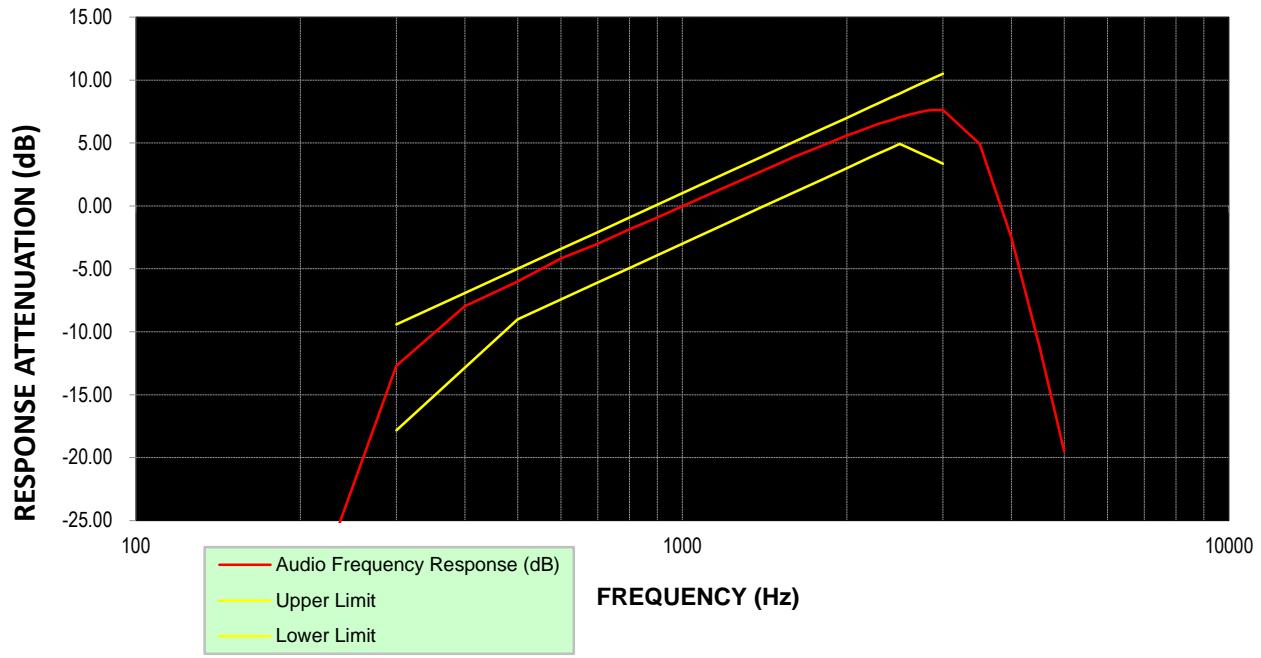
**Appendix D:Modulation Limit**

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 <sub>M2</sub>	-20	0.067	0.184	0.258	0.37	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-15	0.094	0.293	0.418	0.628	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-10	0.14	0.503	0.724	1.099	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-5	0.219	0.848	1.243	1.899	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	0	0.367	1.531	2.071	2.249	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	5	0.642	2.044	2.279	2.332	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	10	0.719	2.176	2.32	2.342	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	15	0.819	2.267	2.335	2.343	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	20	0.95	2.352	2.35	2.358	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 <sub>M2</sub>	100	-33.67	-	-	PASS
TX-ANH	FM	CH <sub>M2</sub>	200	-33.83	-	-	PASS
TX-ANH	FM	CH <sub>M2</sub>	300	-12.69	-17.84	-9.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	400	-7.98	-12.86	-6.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	500	-6.00	-9.00	-5.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	600	-4.18	-7.42	-3.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	700	-3.00	-6.09	-2.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	800	-1.85	-4.93	-0.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	900	-0.93	-3.91	0.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	1200	1.49	-1.42	2.58	PASS
TX-ANH	FM	CH <sub>M2</sub>	1400	2.78	-0.09	3.91	PASS
TX-ANH	FM	CH <sub>M2</sub>	1600	3.89	1.07	5.07	PASS
TX-ANH	FM	CH <sub>M2</sub>	1800	4.79	2.09	6.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	2000	5.58	3.00	7.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	2100	5.92	3.42	7.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	2200	6.24	3.83	7.83	PASS
TX-ANH	FM	CH <sub>M2</sub>	2300	6.54	4.21	8.21	PASS
TX-ANH	FM	CH <sub>M2</sub>	2400	6.79	4.58	8.58	PASS
TX-ANH	FM	CH <sub>M2</sub>	2500	7.03	4.93	8.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	2600	7.26	4.59	9.27	PASS
TX-ANH	FM	CH <sub>M2</sub>	2700	7.43	4.27	9.60	PASS
TX-ANH	FM	CH <sub>M2</sub>	2800	7.56	3.95	9.91	PASS
TX-ANH	FM	CH <sub>M2</sub>	2900	7.64	3.65	10.22	PASS
TX-ANH	FM	CH <sub>M2</sub>	3000	7.62	3.35	10.51	PASS
TX-ANH	FM	CH <sub>M2</sub>	3500	4.94	-	-	PASS
TX-ANH	FM	CH <sub>M2</sub>	4000	-2.52	-	-	PASS
TX-ANH	FM	CH <sub>M2</sub>	4500	-11.12	-	-	PASS
TX-ANH	FM	CH <sub>M2</sub>	5000	-19.51	-	-	PASS

**Appendix E: Aduio Frequency Response****TEST PLOT RESULT****Aduio Freqeucnky 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 <sub>L</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-0.082	-0.069	-0.038	-0.103	-0.157	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-0.072	-0.063	-0.034	-0.094	-0.131	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-0.066	-0.054	-0.030	-0.085	-0.120	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-0.053	-0.042	-0.025	-0.066	-0.098	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-0.043	-0.032	-0.017	-0.055	-0.077	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-0.031	-0.026	<b>-0.014</b>	-0.039	-0.059	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-0.042	-0.039	-0.019	-0.051	-0.083	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-0.059	-0.048	-0.024	-0.069	-0.105	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	55	-0.065	-0.055	-0.027	-0.074	-0.123	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-0.068	-0.102	-0.114	-0.152	-0.144	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-0.059	-0.095	-0.100	-0.138	-0.110	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-0.050	-0.075	-0.081	-0.107	-0.109	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-0.042	-0.064	-0.069	-0.084	-0.085	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-0.038	-0.056	-0.057	-0.083	-0.072	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-0.026	-0.039	-0.041	-0.055	-0.052	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-0.034	-0.055	-0.055	-0.073	-0.075	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-0.048	-0.067	-0.072	-0.098	-0.096	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	55	-0.051	-0.076	-0.078	-0.106	-0.106	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-30	0.385	0.373	0.378	<b>0.385</b>	0.371	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-20	0.381	0.374	0.379	0.382	0.359	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-10	0.366	0.358	0.362	0.374	0.346	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	0	0.359	0.343	0.351	0.352	0.339	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	10	0.347	0.332	0.339	0.343	0.331	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	20	0.326	0.316	0.321	0.325	0.309	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	30	0.348	0.334	0.339	0.341	0.334	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	40	0.362	0.345	0.354	0.358	0.342	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	55	0.369	0.354	0.364	0.363	0.352	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-30	0.385	0.372	0.377	0.385	0.365	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-20	0.383	0.363	0.368	0.368	0.356	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-10	0.363	0.353	0.361	0.364	0.346	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	0	0.358	0.340	0.349	0.347	0.340	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	10	0.347	0.333	0.338	0.337	0.324	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	20	0.328	0.318	0.320	0.325	0.313	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	30	0.343	0.329	0.337	0.336	0.328	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	40	0.358	0.346	0.347	0.347	0.340	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	55	0.371	0.353	0.355	0.364	0.344	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.031	-0.026	<b>-0.014</b>	-0.039	-0.059	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.061	-0.065	-0.045	-0.080	-0.100	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.052	-0.045	-0.038	-0.064	-0.081	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.063	-0.059	-0.064	-0.080	-0.089	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.080	-0.071	-0.063	-0.078	-0.091	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.055	-0.048	-0.032	-0.063	-0.079	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	T <sub>N</sub>	0.326	0.316	0.321	0.325	0.309	±5.0	PASS
TX-ANH	FM	V <sub>L</sub>	T <sub>N</sub>	0.368	0.353	0.353	0.368	0.355	±5.0	PASS
TX-ANH	FM	V <sub>H</sub>	T <sub>N</sub>	0.346	0.339	0.342	0.345	0.327	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	T <sub>N</sub>	0.357	0.355	0.363	0.356	0.342	±5.0	PASS
TX-ANL	FM	V <sub>L</sub>	T <sub>N</sub>	<b>0.375</b>	0.345	0.347	0.366	0.339	±5.0	PASS
TX-ANL	FM	V <sub>H</sub>	T <sub>N</sub>	0.346	0.334	0.339	0.347	0.327	±5.0	PASS



## Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT														
TX-DNH	4FSK	CH <sub>M2</sub>	<p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary Carrier Power 29.11 dBm Carrier Offset 25.25 Hz</p> <table border="1"><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>12.506 kHz</td><td>-12.997 kHz</td><td>12.752 kHz</td><td>8.7489 kHz</td><td>999.73 Hz</td><td>---</td></tr></table> <p>Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:31:31</p> <p>Date: 29.DEC.2018 09:31:31</p> <p style="text-align: center;">OFF~ON</p>	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	12.506 kHz	-12.997 kHz	12.752 kHz	8.7489 kHz	999.73 Hz	---
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD											
FM	12.506 kHz	-12.997 kHz	12.752 kHz	8.7489 kHz	999.73 Hz	---											
TX-DNH	4FSK	CH <sub>M2</sub>	<p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary Carrier Power 29.08 dBm Carrier Offset 37.62 Hz</p> <table border="1"><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>20.802 kHz</td><td>-15.197 kHz</td><td>18.0 kHz</td><td>2.2094 kHz</td><td>---</td><td>---</td></tr></table> <p>Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:30:33</p> <p>Date: 29.DEC.2018 09:30:33</p> <p style="text-align: center;">ON-OFF</p>	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	20.802 kHz	-15.197 kHz	18.0 kHz	2.2094 kHz	---	---
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD											
FM	20.802 kHz	-15.197 kHz	18.0 kHz	2.2094 kHz	---	---											
TX-ANH	FM	CH <sub>M2</sub>	<p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary Carrier Power 29.10 dBm Carrier Offset 26.28 Hz</p> <table border="1"><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>12.659 kHz</td><td>-15.038 kHz</td><td>13.848 kHz</td><td>8.7441 kHz</td><td>1.0194 kHz</td><td>---</td></tr></table> <p>Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:32:04</p> <p>Date: 29.DEC.2018 09:32:04</p> <p style="text-align: center;">OFF~ON</p>	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	12.659 kHz	-15.038 kHz	13.848 kHz	8.7441 kHz	1.0194 kHz	---
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD											
FM	12.659 kHz	-15.038 kHz	13.848 kHz	8.7441 kHz	1.0194 kHz	---											



## Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																									
TX-ANH	FM	CH <sub>M2</sub>	<p><b>Result Summary</b></p> <table border="1"><thead><tr><th></th><th>Carrier Power</th><th>29.09 dBm</th><th>Carrier Offset</th><th>37.33 Hz</th></tr></thead><tbody><tr><td>+Peak</td><td>17.226 kHz</td><td>-16.31 kHz</td><td>+Peak/2</td><td>16.768 kHz</td></tr><tr><td>RMS</td><td>2.2045 kHz</td><td></td><td>Mod. Freq.</td><td>***</td></tr><tr><td>SINAD</td><td></td><td></td><td>THD</td><td>***</td></tr><tr><td>THD</td><td></td><td></td><td>Date:</td><td>29.DEC.2018 09:31:07</td></tr></tbody></table> <p>ON-OFF</p>		Carrier Power	29.09 dBm	Carrier Offset	37.33 Hz	+Peak	17.226 kHz	-16.31 kHz	+Peak/2	16.768 kHz	RMS	2.2045 kHz		Mod. Freq.	***	SINAD			THD	***	THD			Date:	29.DEC.2018 09:31:07
	Carrier Power	29.09 dBm	Carrier Offset	37.33 Hz																								
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SINAD			THD	***																								
THD			Date:	29.DEC.2018 09:31:07																								

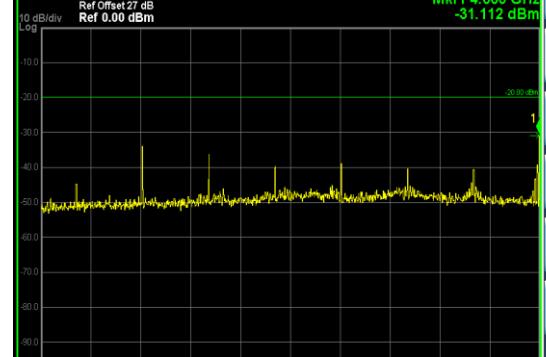
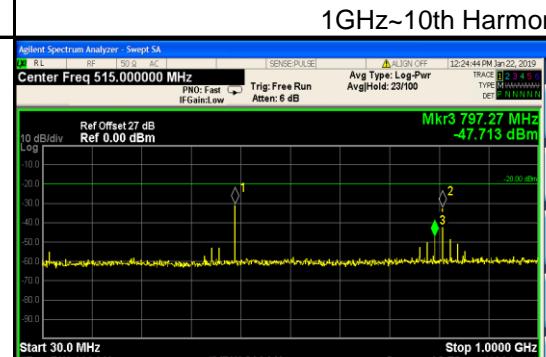
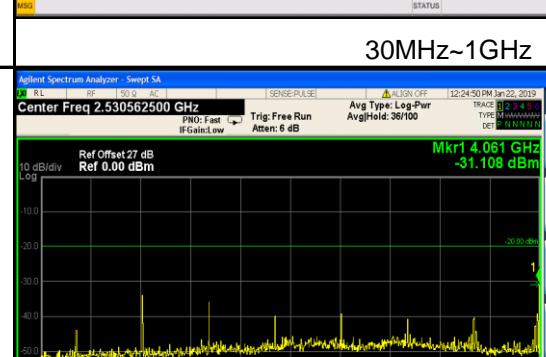


## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start 30.000 MHz Stop 1.0000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Mkr3 781.75 MHz -44.769 dBm Mkr1 1.600 GHz -34.645 dBm</p> <p>Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz</p> <p>30MHz~1GHz</p>
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.500062500 GHz Start 1.0000 GHz Stop 4.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts) Mkr1 1.600 GHz -34.645 dBm</p> <p>Frequency Auto Tune Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Auto Freq Offset 0 Hz</p> <p>1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start 30.000 MHz Stop 1.0000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Mkr3 797.27 MHz -47.986 dBm Mkr1 1.600 GHz -34.645 dBm</p> <p>Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz</p> <p>30MHz~1GHz</p>



## Appendix I: Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																		
TX-DNH	4FSK	CHM1	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.529937500 GHz</p> <p>PNO: Fast IFGain:Low Trig: Free Run Atten: 6 dB</p> <p>Ref Offset 27 dB Ref 0.00 dBm</p> <p>Mkr1 4.060 GHz -31.112 dBm</p>  <p>Start 1.000 GHz Stop 4.060 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>File &lt;Temp.png&gt; saved (STATUS)</p> <p>Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.00000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Freq Offset 0 Hz</p>																																																																		
TX-DNH	4FSK	CHM2	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>PNO: Fast IFGain:Low Trig: Free Run Atten: 6 dB</p> <p>Ref Offset 27 dB Ref 0.00 dBm</p> <p>Mkr3 797.27 MHz -47.713 dBm</p>  <p>Start 30.0 MHz Stop 1.0000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <tr><td>1</td><td>N</td><td>1</td><td>f</td><td>406.35 MHz</td><td>-31.098 dBm</td></tr> <tr><td>2</td><td>N</td><td>1</td><td>f</td><td>811.22 MHz</td><td>-32.983 dBm</td></tr> <tr><td>3</td><td>N</td><td>1</td><td>f</td><td>797.27 MHz</td><td>-47.713 dBm</td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>MKR MODE: TRC SCL 1 FUNCTION FUNCTION WIDTH FUNCTION VALUE</p> <p>File &lt;Temp.png&gt; saved (STATUS)</p> <p>Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz</p>	1	N	1	f	406.35 MHz	-31.098 dBm	2	N	1	f	811.22 MHz	-32.983 dBm	3	N	1	f	797.27 MHz	-47.713 dBm	4						5						6						7						8						9						10						11					
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TX-DNH	4FSK	CHM2	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.530562500 GHz</p> <p>PNO: Fast IFGain:Low Trig: Free Run Atten: 6 dB</p> <p>Ref Offset 27 dB Ref 0.00 dBm</p> <p>Mkr1 4.061 GHz -31.108 dBm</p>  <p>Start 1.000 GHz Stop 4.061 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>File &lt;Temp.png&gt; saved (STATUS)</p> <p>Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.00000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Auto Freq Offset 0 Hz</p>																																																																		



## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start 30.000 MHz Stop 1.00000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Mkr3 900.09 MHz -47.765 dBm Mkr1 1.772 GHz -30.484 dBm</p> <p>Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz</p> <p>30MHz~1GHz</p>
TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.715062500 GHz Start 1.00000 GHz Stop 4.430 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.733 ms (1001 pts) Mkr1 1.772 GHz -30.484 dBm</p> <p>Frequency Auto Tune Center Freq 2.715062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.430125000 GHz CF Step 343.012500 MHz Auto Freq Offset 0 Hz</p> <p>1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start 30.000 MHz Stop 1.00000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Mkr3 938.89 MHz -44.597 dBm Mkr1 1.938 GHz -30.484 dBm</p> <p>Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz</p> <p>30MHz~1GHz</p>



## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.899937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.799875000 GHz CF Step 379.987500 MHz Freq Offset 0 Hz Ref Offset 27 dB Ref 0.00 dBm Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 32/100 Trace 1, 2, 3, 4, 5 Type: M4WWWWWWWW DET: 111111111111 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.800 GHz Sweep 6.333 ms (1001 pts) M00 File &lt;Temp.png&gt; saved</p> <p><b>1GHz~10th Harmonic</b></p>
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz Ref Offset 27 dB Ref 0.00 dBm Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 36/100 Trace 1, 2, 3, 4, 5 Type: M4WWWWWWWW DET: 111111111111 Start 30.000 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.00000 GHz Sweep 92.73 ms (1001 pts) M00 File &lt;Temp.png&gt; saved</p> <p><b>30MHz~1GHz</b></p>
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Freq Offset 0 Hz Ref Offset 27 dB Ref 0.00 dBm Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 36/100 Trace 1, 2, 3, 4, 5 Type: M4WWWWWWWW DET: 111111111111 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.000 GHz Sweep 5.067 ms (1001 pts) M00 File &lt;Temp.png&gt; saved</p> <p><b>1GHz~10th Harmonic</b></p>



## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.0000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz Mkr3 797.27 MHz -48.011 dBm</p> <p>30MHz~1GHz</p>
TX-ANH	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Freq Offset 0 Hz Mkr1 4.060 GHz -30.976 dBm</p> <p>1GHz~10th Harmonic</p>
TX-ANH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.0000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz Mkr3 797.27 MHz -48.242 dBm</p> <p>30MHz~1GHz</p>



## Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Freq Offset 0 Hz Ref Offset 27 dB Ref 0.00 dBm Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 33/100 Mkr1 4.061 GHz -30.803 dBm Mkr2 1.000 GHz -30.803 dBm Mkr3 3.000 GHz -30.803 dBm Mkr4 2.000 GHz -30.803 dBm Mkr5 4.000 GHz -30.803 dBm Mkr6 5.000 GHz -30.803 dBm Mkr7 6.000 GHz -30.803 dBm Mkr8 7.000 GHz -30.803 dBm Mkr9 8.000 GHz -30.803 dBm Mkr10 9.000 GHz -30.803 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.061 GHz Sweep 5.133 ms (1001 pts) MSO File &lt;Temp.png&gt; saved</p> <p>1GHz~10th Harmonic</p>
TX-ANH	FM	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz Ref Offset 27 dB Ref 0.00 dBm Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 33/100 Mkr1 900.09 MHz -48.735 dBm Mkr2 866.51 MHz -33.598 dBm Mkr3 871.98 MHz -47.141 dBm Mkr4 900.59 MHz -48.735 dBm Mkr5 886.51 MHz -33.598 dBm Mkr6 871.98 MHz -47.141 dBm Mkr7 900.59 MHz -48.735 dBm Mkr8 886.51 MHz -33.598 dBm Mkr9 871.98 MHz -47.141 dBm Mkr10 900.59 MHz -48.735 dBm Mkr11 886.51 MHz -33.598 dBm Mkr12 871.98 MHz -47.141 dBm Mkr13 900.59 MHz -48.735 dBm Mkr14 886.51 MHz -33.598 dBm Mkr15 871.98 MHz -47.141 dBm Mkr16 900.59 MHz -48.735 dBm Mkr17 886.51 MHz -33.598 dBm Mkr18 871.98 MHz -47.141 dBm Mkr19 900.59 MHz -48.735 dBm Mkr20 886.51 MHz -33.598 dBm Mkr21 871.98 MHz -47.141 dBm Mkr22 900.59 MHz -48.735 dBm Mkr23 886.51 MHz -33.598 dBm Mkr24 871.98 MHz -47.141 dBm Mkr25 900.59 MHz -48.735 dBm Mkr26 886.51 MHz -33.598 dBm Mkr27 871.98 MHz -47.141 dBm Mkr28 900.59 MHz -48.735 dBm Mkr29 886.51 MHz -33.598 dBm Mkr30 871.98 MHz -47.141 dBm Mkr31 900.59 MHz -48.735 dBm Mkr32 886.51 MHz -33.598 dBm Mkr33 871.98 MHz -47.141 dBm Mkr34 900.59 MHz -48.735 dBm Mkr35 886.51 MHz -33.598 dBm Mkr36 871.98 MHz -47.141 dBm Mkr37 900.59 MHz -48.735 dBm Mkr38 886.51 MHz -33.598 dBm Mkr39 871.98 MHz -47.141 dBm Mkr40 900.59 MHz -48.735 dBm Start 30.000 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.00000 GHz Sweep 92.73 ms (1001 pts) MSO File &lt;Temp.png&gt; saved</p> <p>30MHz~1GHz</p>
TX-ANH	FM	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.715062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.430125000 GHz CF Step 343.012500 MHz Freq Offset 0 Hz Ref Offset 27 dB Ref 0.00 dBm Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 33/100 Mkr1 1.772 GHz -30.721 dBm Mkr2 1.000 GHz -30.721 dBm Mkr3 3.000 GHz -30.721 dBm Mkr4 2.000 GHz -30.721 dBm Mkr5 4.000 GHz -30.721 dBm Mkr6 5.000 GHz -30.721 dBm Mkr7 6.000 GHz -30.721 dBm Mkr8 7.000 GHz -30.721 dBm Mkr9 8.000 GHz -30.721 dBm Mkr10 9.000 GHz -30.721 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.430 GHz Sweep 5.733 ms (1001 pts) MSO File &lt;Temp.png&gt; saved</p> <p>1GHz~10th Harmonic</p>

**Appendix I:Spurious Emission On Antenna Port**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																												
TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Start 30.000 MHz Stop 1.00000 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <p>Mkr3 938.89 MHz -45.603 dBm</p> <table border="1"><caption>Marker Data</caption><thead><tr><th>MKR MODE</th><th>TRC SEL</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N 1 f</td><td>860.23 MHz</td><td>-32.706 dBm</td><td></td></tr><tr><td>2</td><td>N 1 f</td><td>460.08 MHz</td><td>-40.332 dBm</td><td></td></tr><tr><td>3</td><td>N 1 f</td><td>938.89 MHz</td><td>-45.603 dBm</td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td></tr></tbody></table> <p>30MHz~1GHz</p>	MKR MODE	TRC SEL	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N 1 f	860.23 MHz	-32.706 dBm		2	N 1 f	460.08 MHz	-40.332 dBm		3	N 1 f	938.89 MHz	-45.603 dBm		4					5					6					7					8					9					10					11				
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.899937500 GHz</p> <p>Start 1.00000 GHz Stop 4.80000 GHz</p> <p>#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.333 ms (1001 pts)</p> <p>Mkr1 1.920 GHz -31.511 dBm</p> <table border="1"><caption>Marker Data</caption><thead><tr><th>MKR MODE</th><th>TRC SEL</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N 1 f</td><td>360.23 MHz</td><td>-32.706 dBm</td><td></td></tr><tr><td>2</td><td>N 1 f</td><td>460.08 MHz</td><td>-40.332 dBm</td><td></td></tr><tr><td>3</td><td>N 1 f</td><td>938.89 MHz</td><td>-45.603 dBm</td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td></tr></tbody></table> <p>1GHz~10th Harmonic</p>	MKR MODE	TRC SEL	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N 1 f	360.23 MHz	-32.706 dBm		2	N 1 f	460.08 MHz	-40.332 dBm		3	N 1 f	938.89 MHz	-45.603 dBm		4					5					6					7					8					9					10					11				
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**Appendix A:Maximum Transmitter Power**

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH <sub>L</sub>	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNH	4FSK	CH <sub>H</sub>	35.6	3.63	4.00	-9.2	±20	PASS
TX-DNL	4FSK	CH <sub>L</sub>	29.8	0.95	1.00	-4.5	±20	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	29.9	0.98	1.00	-2.3	±20	PASS
TX-DNL	4FSK	CH <sub>H</sub>	29.7	0.93	1.00	-6.7	±20	PASS
TX-ANH	FM	CH <sub>L</sub>	35.5	3.55	4.00	-11.3	±20	PASS
TX-ANH	FM	CH <sub>M2</sub>	35.9	3.89	4.00	-2.7	±20	PASS
TX-ANH	FM	CH <sub>H</sub>	35.8	3.80	4.00	-5.0	±20	PASS
TX-ANL	FM	CH <sub>L</sub>	29.7	0.93	1.00	-6.7	±20	PASS
TX-ANL	FM	CH <sub>M2</sub>	29.9	0.98	1.00	-2.3	±20	PASS
TX-ANL	FM	CH <sub>H</sub>	29.6	0.91	1.00	-8.8	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH <sub>L</sub>	7.853	9.841	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	8.053	9.808	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H</sub>	7.969	9.834	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L</sub>	7.851	9.934	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	8.010	10.380	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H</sub>	7.833	9.845	≤11.25	PASS
TX-ANH	FM	CH <sub>L</sub>	9.996	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>M2</sub>	9.997	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>H</sub>	9.997	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>L</sub>	9.991	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>M2</sub>	9.996	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>H</sub>	9.997	10.170	≤11.25	PASS



## Appendix B: Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 136.012500 MHz Ref 39.42 dBm Occupied Bandwidth 7.853 kHz Transmit Freq Error -108 Hz x dB Bandwidth 9.841 kHz</p> <p>Total Power 42.3 dBm OBW Power 99.00 % x dB 26.00 dB</p>
TX-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Ref 39.40 dBm Occupied Bandwidth 8.053 kHz Transmit Freq Error -112 Hz x dB Bandwidth 9.808 kHz</p> <p>Total Power 42.4 dBm OBW Power 99.00 % x dB 26.00 dB</p>
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Ref 39.71 dBm Occupied Bandwidth 7.969 kHz Transmit Freq Error -72 Hz x dB Bandwidth 9.834 kHz</p> <p>Total Power 42.1 dBm OBW Power 99.00 % x dB 26.00 dB</p>