



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-ANH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 28 dB Ref 41.0 dBm</p> <p>Center 406.1 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 36.67 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>Upper ΔLim(dB)</th> <th>Peak (dBm)</th> <th>Peak (dBm)</th> <th>Peak (dBm)</th> <th>Peak (dBm)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>36.13</td> <td>(-0.88)</td> <td>-150.0</td> <td>3.117</td> <td>(-33.90)</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.19</td> <td>(-10.31)</td> <td>-12.15 k</td> <td>-42.08</td> <td>(-7.66)</td> <td>12.50 k</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.59</td> <td>(-15.59)</td> <td>-16.85 k</td> <td>-35.50</td> <td>(-15.50)</td> <td>16.60 k</td> <td>16.60 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> <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> <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> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak (dBm)	Peak (dBm)	Peak (dBm)	Peak (dBm)	0.0 Hz	5.625 kHz	100.0 Hz	36.13	(-0.88)	-150.0	3.117	(-33.90)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.19	(-10.31)	-12.15 k	-42.08	(-7.66)	12.50 k	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.59	(-15.59)	-16.85 k	-35.50	(-15.50)	16.60 k	16.60 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-	-
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz</p> <p>Ref Offset 28 dB Ref 41.0 dBm</p> <p>Center 470 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 36.37 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>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.11</td> <td>(-2.32)</td> <td>(-10.06)</td> <td>2.350 k</td> <td>27.37</td> <td>(-10.06)</td> <td>(-10.06)</td> <td>2.350 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.65</td> <td>(-3.01)</td> <td>(-1.70)</td> <td>12.40 k</td> <td>-34.98</td> <td>(-1.70)</td> <td>(-1.70)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.29</td> <td>(-15.29)</td> <td>(-13.05)</td> <td>12.75 k</td> <td>-33.05</td> <td>(-13.05)</td> <td>(-13.05)</td> <td>12.75 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> <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> <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> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.11	(-2.32)	(-10.06)	2.350 k	27.37	(-10.06)	(-10.06)	2.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.65	(-3.01)	(-1.70)	12.40 k	-34.98	(-1.70)	(-1.70)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.29	(-15.29)	(-13.05)	12.75 k	-33.05	(-13.05)	(-13.05)	12.75 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>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.90 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>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>30.90</td> <td>(-0.88)</td> <td>19.86</td> <td>(-11.92)</td> <td>0.0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.84</td> <td>(-3.00)</td> <td>-12.25 k</td> <td>-41.28</td> <td>(-4.89)</td> <td></td> <td></td> <td>12.05 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.87</td> <td>(-22.67)</td> <td>-18.65 k</td> <td>-43.57</td> <td>(-23.57)</td> <td></td> <td></td> <td>18.45 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> <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> <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> <td></td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.90	(-0.88)	19.86	(-11.92)	0.0				5.625 kHz	12.50 kHz	100.0 Hz	-40.84	(-3.00)	-12.25 k	-41.28	(-4.89)			12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.87	(-22.67)	-18.65 k	-43.57	(-23.57)			18.45 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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Appendix C:Emission Mask

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Appendix C:Emission Mask

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TX-ANL	FM	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 28 dB Ref 35.0 dBm</p> <p>Total Power Ref 29.36 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>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> <th>Peak ΔLim(dB)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>29.37</td> <td>(-1.19)</td> <td>(-100.0)</td> <td>7.089</td> <td>(-23.47)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-47.27</td> <td>(-9.30)</td> <td>(-12.10 k)</td> <td>-45.35</td> <td>(-4.84)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.54</td> <td>(-22.54)</td> <td>(-16.30 k)</td> <td>-43.67</td> <td>(-23.67)</td> <td>16.10 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> <td>(—)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Peak ΔLim(dB)	0.0 Hz	5.625 kHz	100.0 Hz	29.37	(-1.19)	(-100.0)	7.089	(-23.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.27	(-9.30)	(-12.10 k)	-45.35	(-4.84)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.54	(-22.54)	(-16.30 k)	-43.67	(-23.67)	16.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	(—)	(—)	(—)	(—)	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	(—)	(—)	(—)	(—)	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	(—)	(—)	(—)	(—)
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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>Center Freq 469.987500 MHz</p> <p>Center Freq 469.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg: 100.00% of 10</p> <p>Radio Std: None</p> <p>IF Gain: Low</p> <p>#Atten: 40 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 28 dB</p> <p>Ref: 38.0 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>26.0</p> <p>18.0</p> <p>8.0</p> <p>0.0</p> <p>-8.0</p> <p>-16.0</p> <p>-24.0</p> <p>-32.0</p> <p>-40.0</p> <p>-48.0</p> <p>Center 470 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 30.78 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>Freq (Hz)</th> <th>&lt; Peak &gt; 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>29.40</td> <td>(-2.30)</td> <td>-200.0</td> <td>21.67</td> <td>(-10.03)</td> <td>2.300 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.53</td> <td>(-3.25)</td> <td>-12.30 k</td> <td>-40.98</td> <td>(-2.70)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.64</td> <td>(-20.64)</td> <td>-13.45 k</td> <td>-38.78</td> <td>(-18.78)</td> <td>13.75 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>Frequency</p> <p>Center Freq 469.987500 MHz</p> <p>CF Step 12.000 kHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p> <p>File &lt;Temp.png&gt; saved</p> <p>STATUS</p>	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	29.40	(-2.30)	-200.0	21.67	(-10.03)	2.300 k	5.625 kHz	12.50 kHz	100.0 Hz	-41.53	(-3.25)	-12.30 k	-40.98	(-2.70)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.64	(-20.64)	-13.45 k	-38.78	(-18.78)	13.75 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	-	(-)	-	-	(-)	-																																																										



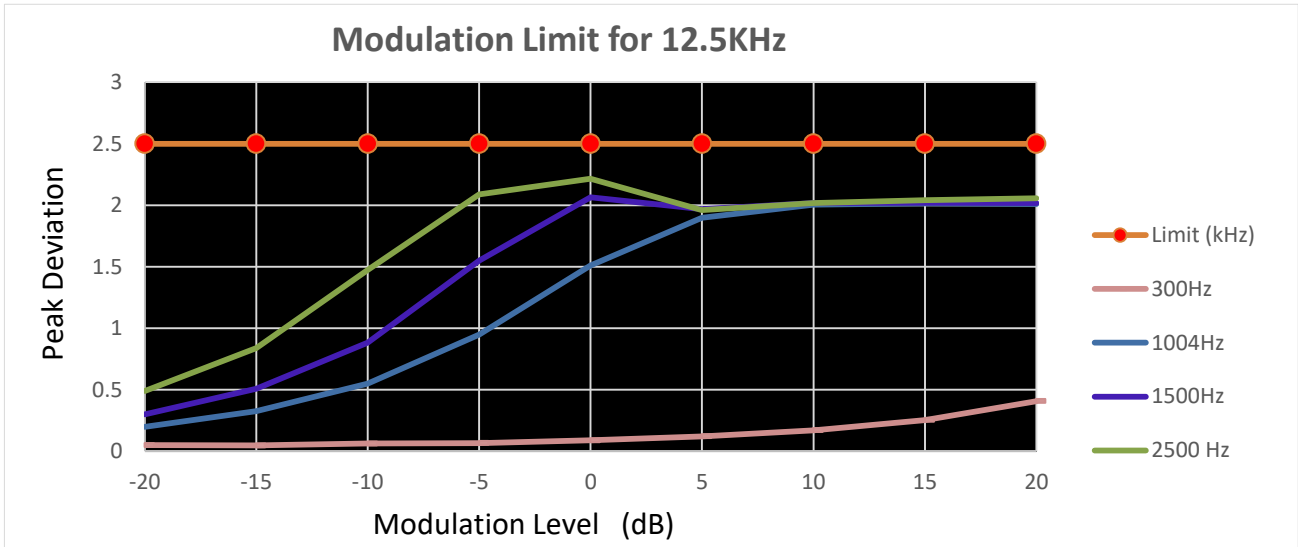
**Appendix D:Modulation Limit**

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 <sub>M2</sub>	-20	0.05	0.199	0.301	0.489	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-15	0.047	0.325	0.508	0.839	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-10	0.062	0.55	0.884	1.473	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-5	0.067	0.947	1.548	2.087	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	0	0.089	1.511	2.063	2.215	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	5	0.121	1.898	1.967	1.959	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	10	0.171	2.004	2.018	2.018	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	15	0.254	2.016	2.021	2.04	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	20	0.407	2.01	2.018	2.056	2.5	PASS



### Appendix D:Modulation Limit

## TEST PLOT RESULT





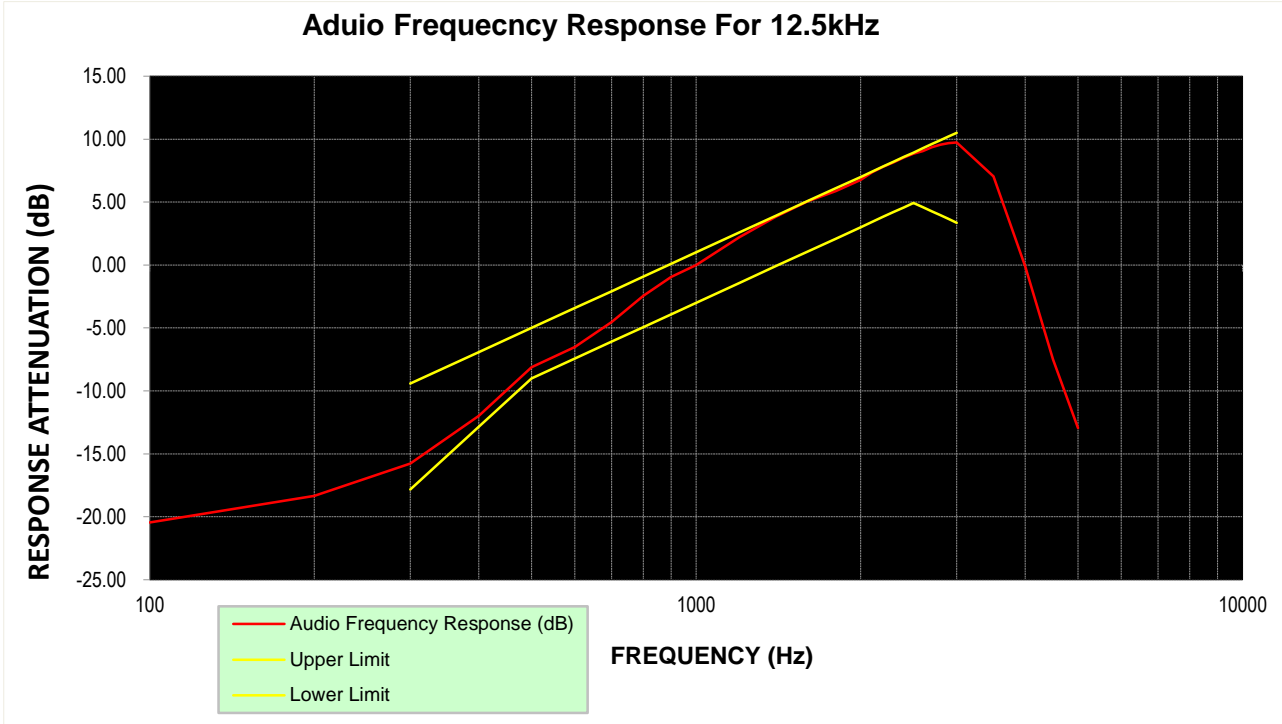
**Appendix E:Aduio Frequency Response**

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	-20.46			PASS
TX-ANH	FM	CH <sub>M2</sub>	200	-18.35			PASS
TX-ANH	FM	CH <sub>M2</sub>	300	-15.78	-17.84	-9.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	400	-11.99	-12.86	-6.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	500	-8.12	-9.00	-5.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	600	-6.52	-7.42	-3.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	700	-4.54	-6.09	-2.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	800	-2.45	-4.93	-0.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	900	-0.96	-3.91	0.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	1000	0.00	-3.00	1.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	1200	2.21	-1.42	2.58	PASS
TX-ANH	FM	CH <sub>M2</sub>	1400	3.83	-0.09	3.91	PASS
TX-ANH	FM	CH <sub>M2</sub>	1600	5.05	1.07	5.07	PASS
TX-ANH	FM	CH <sub>M2</sub>	1800	5.88	2.09	6.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	2000	6.76	3.00	7.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	2100	7.36	3.42	7.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	2200	7.79	3.83	7.83	PASS
TX-ANH	FM	CH <sub>M2</sub>	2300	8.17	4.21	8.21	PASS
TX-ANH	FM	CH <sub>M2</sub>	2400	8.54	4.58	8.58	PASS
TX-ANH	FM	CH <sub>M2</sub>	2500	8.84	4.93	8.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	2600	9.06	4.59	9.27	PASS
TX-ANH	FM	CH <sub>M2</sub>	2700	9.36	4.27	9.60	PASS
TX-ANH	FM	CH <sub>M2</sub>	2800	9.55	3.95	9.91	PASS
TX-ANH	FM	CH <sub>M2</sub>	2900	9.68	3.65	10.22	PASS
TX-ANH	FM	CH <sub>M2</sub>	3000	9.74	3.35	10.51	PASS
TX-ANH	FM	CH <sub>M2</sub>	3500	7.04			PASS
TX-ANH	FM	CH <sub>M2</sub>	4000	-0.10			PASS
TX-ANH	FM	CH <sub>M2</sub>	4500	-7.50			PASS
TX-ANH	FM	CH <sub>M2</sub>	5000	-12.95			PASS



### Appendix E:Aduio Frequency Response

## TEST PLOT RESULT



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	0.152	0.155	0.151	0.189	0.236	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	0.154	0.159	0.147	0.180	0.222	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	0.157	0.148	0.146	0.183	0.233	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	0.148	0.150	0.149	0.186	0.231	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	0.152	0.156	0.150	0.185	0.221	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	0.145	0.145	0.143	0.178	0.215	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	0.154	0.159	0.154	0.183	0.217	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	0.152	0.159	0.150	0.185	0.220	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	55	0.157	0.146	0.154	0.186	0.236	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	0.135	0.164	0.152	0.241	0.219	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	0.142	0.156	0.149	0.234	0.226	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	0.141	0.158	0.150	0.239	0.235	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	0.139	0.156	0.142	0.236	0.220	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	0.137	0.150	0.150	0.241	0.231	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	0.135	0.150	0.140	0.226	0.215	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	0.144	0.160	0.142	0.247	0.225	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	0.143	0.165	0.153	0.240	0.220	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	55	0.135	0.162	0.152	0.248	0.231	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-30	-0.227	-0.219	-0.224	-0.227	-0.215	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-20	-0.225	-0.218	-0.225	-0.219	-0.221	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-10	-0.223	-0.217	-0.228	-0.217	-0.222	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	0	-0.215	-0.226	-0.237	-0.216	-0.230	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	10	-0.220	-0.218	-0.218	-0.221	-0.216	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	20	-0.215	-0.212	-0.217	-0.212	-0.211	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	30	-0.222	-0.219	-0.235	-0.232	-0.217	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	40	-0.228	-0.214	-0.234	-0.219	-0.223	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	55	-0.236	-0.225	-0.232	-0.220	-0.228	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-30	-0.220	-0.229	-0.233	-0.214	-0.210	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-20	-0.234	-0.225	-0.220	-0.219	-0.221	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-10	-0.221	-0.233	-0.221	-0.216	-0.225	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	0	-0.218	-0.225	-0.239	-0.212	-0.212	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	10	-0.227	-0.222	-0.226	-0.218	-0.207	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	20	-0.217	-0.212	-0.219	-0.210	-0.206	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	30	-0.232	-0.223	-0.230	-0.221	-0.219	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	40	-0.236	-0.223	-0.227	-0.226	-0.219	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	55	-0.227	-0.216	-0.241	-0.211	-0.211	±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>	0.145	0.145	0.143	0.178	0.215	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	0.145	0.147	0.143	0.181	0.216	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	0.151	0.150	0.147	0.181	0.224	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	0.135	0.150	0.140	0.226	0.215	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	0.135	0.151	0.143	0.228	0.216	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	0.142	0.155	0.142	0.238	0.220	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	T <sub>N</sub>	-0.215	-0.212	-0.217	-0.212	-0.211	±5.0	PASS
TX-ANH	FM	V <sub>L</sub>	T <sub>N</sub>	-0.218	-0.214	-0.219	-0.216	-0.211	±5.0	PASS
TX-ANH	FM	V <sub>H</sub>	T <sub>N</sub>	-0.224	-0.223	-0.223	-0.222	-0.215	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	T <sub>N</sub>	-0.217	-0.212	-0.219	-0.210	-0.206	±5.0	PASS
TX-ANL	FM	V <sub>L</sub>	T <sub>N</sub>	-0.219	-0.215	-0.220	-0.210	-0.209	±5.0	PASS
TX-ANL	FM	V <sub>H</sub>	T <sub>N</sub>	-0.223	-0.221	-0.232	-0.222	-0.218	±5.0	PASS

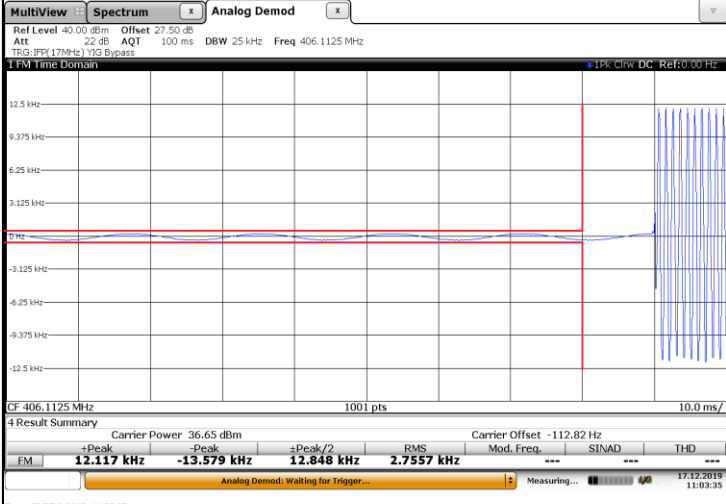


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 40.00 dBm Offset 27.50 dB Att 22 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:JPR(17MHz) YIG Bypass</p> <p>FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></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>36.67 dBm</td> <td>-112.93 Hz</td> <td>12.084 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>+Peak 12.084 kHz -Peak -12.163 kHz ±Peak/2 12.123 kHz RMS 2.744 kHz</p> <p>Date: 17.DEC.2019 11:04:34</p> <p>OFF~ON</p>		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	36.67 dBm	-112.93 Hz	12.084 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	36.67 dBm	-112.93 Hz	12.084 kHz	---	---										
TX-DNH	4FSK	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 40.00 dBm Offset 27.50 dB Att 22 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:JPR(17MHz) YIG Bypass</p> <p>FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></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>36.65 dBm</td> <td>-113.24 Hz</td> <td>12.304 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>+Peak 12.304 kHz -Peak -12.181 kHz ±Peak/2 12.242 kHz RMS 8.7309 kHz 1.0396 kHz</p> <p>Date: 17.DEC.2019 11:03:51</p> <p>ON-OFF</p>		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	36.65 dBm	-113.24 Hz	12.304 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	36.65 dBm	-113.24 Hz	12.304 kHz	---	---										
TX-ANH	FM	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 40.00 dBm Offset 27.50 dB Att 22 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:JPR(17MHz) YIG Bypass</p> <p>FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></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>36.67 dBm</td> <td>-113.16 Hz</td> <td>12.137 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>+Peak 12.137 kHz -Peak -12.526 kHz ±Peak/2 12.331 kHz RMS 8.7202 kHz 1.0336 kHz</p> <p>Date: 17.DEC.2019 11:04:13</p> <p>OFF~ON</p>		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	36.67 dBm	-113.16 Hz	12.137 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	36.67 dBm	-113.16 Hz	12.137 kHz	---	---										

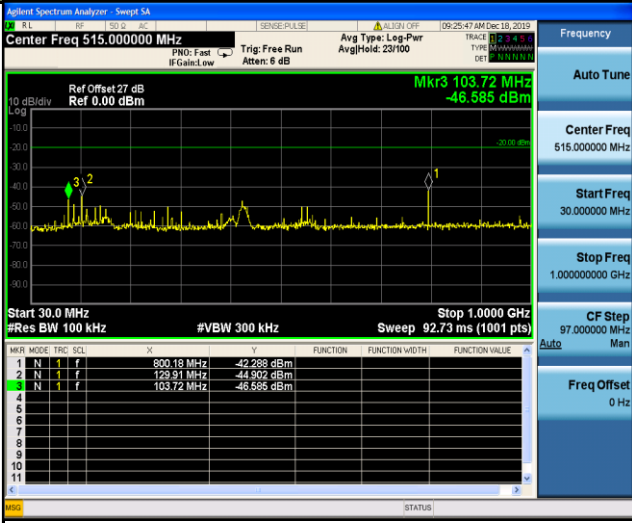
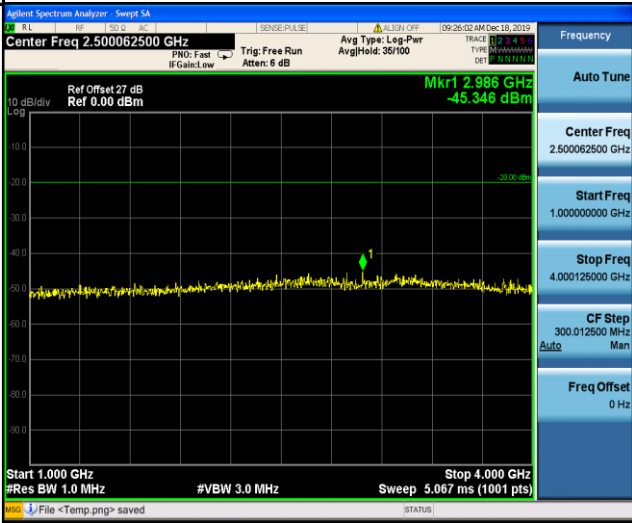
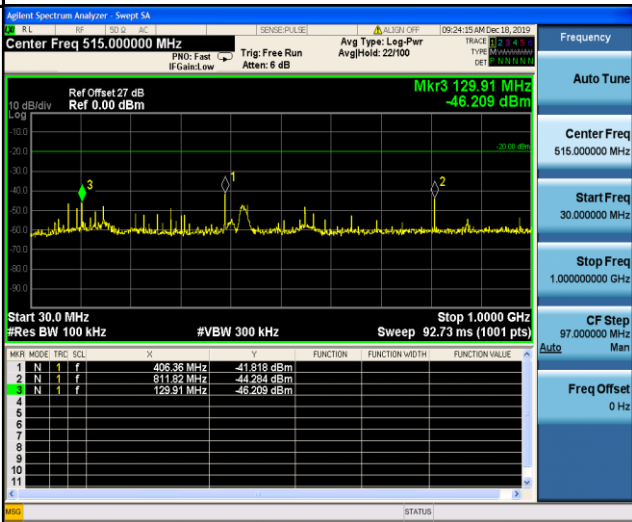


**Appendix H:Transmitter Frequency Behavior**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-ANH	FM	CH <sub>M2</sub>	 <table border="1" data-bbox="596 772 1324 840"> <thead> <tr> <th colspan="2">Result Summary</th> <th>Carrier Power</th> <th>Carrier Offset</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>36.65 dBm</td> <td>-112.82 Hz</td> </tr> <tr> <td>FM</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="596 846 726 862">Date: 17.DEC.2019 11:03:35</p> <p data-bbox="973 878 1085 907">ON-OFF</p>	Result Summary		Carrier Power	Carrier Offset			36.65 dBm	-112.82 Hz	FM							
Result Summary		Carrier Power	Carrier Offset																
		36.65 dBm	-112.82 Hz																
FM																			



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CHL	 <p>Agilent Spectrum Analyzer - Swept SA            Center Freq 515.000000 MHz            Ref Offset 27 dB            Ref 0.00 dBm            Mkr3 103.72 MHz            -46.585 dBm            Start 30.0 MHz            #Res BW 100 kHz            #VBW 300 kHz            Stop 1.0000 GHz            Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>900.18 MHz</td> <td>-42.289 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>129.91 MHz</td> <td>-44.902 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>103.72 MHz</td> <td>-46.585 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	900.18 MHz	-42.289 dBm				2	N	1	f	129.91 MHz	-44.902 dBm				3	N	1	f	103.72 MHz	-46.585 dBm			
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TX-DNH	4FSK	CHL	 <p>Agilent Spectrum Analyzer - Swept SA            Center Freq 2.500062500 GHz            Ref Offset 27 dB            Ref 0.00 dBm            Mkr1 2.986 GHz            -45.346 dBm            Start 1.000 GHz            #Res BW 1.0 MHz            #VBW 3.0 MHz            Stop 4.000 GHz            Sweep 5.067 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH <sub>M1</sub>	 <p>Agilent Spectrum Analyzer - Swept SA            Center Freq 515.000000 MHz            Ref Offset 27 dB            Ref 0.00 dBm            Mkr3 129.91 MHz            -46.209 dBm            Start 30.0 MHz            #Res BW 100 kHz            #VBW 300 kHz            Stop 1.000 GHz            Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>406.36 MHz</td> <td>-41.818 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>311.92 MHz</td> <td>-44.204 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>129.91 MHz</td> <td>-46.209 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	406.36 MHz	-41.818 dBm				2	N	1	f	311.92 MHz	-44.204 dBm				3	N	1	f	129.91 MHz	-46.209 dBm			
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TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Swept SA            Center Freq 2.529937500 GHz            Ref Offset 27 dB            Ref 0.00 dBm            Mkr1 2.640 GHz            -44.948 dBm            Start 1.000 GHz            #Res BW 1.0 MHz            #VBW 3.0 MHz            Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Swept SA            Center Freq 515.000000 MHz            Ref Offset 27 dB            Ref 0.00 dBm            Mkr3 129.91 MHz            -45.606 dBm            Start 30.0 MHz            #Res BW 100 kHz            #VBW 300 kHz            Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>458.38 MHz</td> <td>-40.514 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>511.82 MHz</td> <td>-44.354 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>129.91 MHz</td> <td>-45.606 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	458.38 MHz	-40.514 dBm				2	N	1	f	511.82 MHz	-44.354 dBm				3	N	1	f	129.91 MHz	-45.606 dBm			
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TX-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Swept SA            Center Freq 2.530562500 GHz            Ref Offset 27 dB            Ref 0.00 dBm            Mkr1 3.299 GHz            -45.481 dBm            Start 1.000 GHz            #Res BW 1.0 MHz            #VBW 3.0 MHz            Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				





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TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 184.23 MHz -42.471 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>470.38 MHz</td> <td>-39.935 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>192.93 MHz</td> <td>-42.075 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>184.23 MHz</td> <td>-42.471 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz	-39.935 dBm				2	N	1	f	192.93 MHz	-42.075 dBm				3	N	1	f	184.23 MHz	-42.471 dBm			
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TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA  Center Freq 2.849937500 GHz  Ref Offset 27 dB  Ref 0.00 dBm  Mkr1 1.781 GHz  -39.540 dBm  Start 1.000 GHz  #Res BW 1.0 MHz  #VBW 3.0 MHz  Sweep 6.200 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Swept SA  Center Freq 515.000000 MHz  Ref Offset 27 dB  Ref 0.00 dBm  Mkr3 103.72 MHz  -45.714 dBm  Start 30.0 MHz  #Res BW 100 kHz  #VBW 300 kHz  Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>800.18 MHz</td> <td>-42.591 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>129.91 MHz</td> <td>-45.256 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>103.72 MHz</td> <td>-45.714 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	800.18 MHz	-42.591 dBm				2	N	1	f	129.91 MHz	-45.256 dBm				3	N	1	f	103.72 MHz	-45.714 dBm			
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TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Swept SA  Center Freq 2.500062500 GHz  Ref Offset 27 dB  Ref 0.00 dBm  Mkr1 3.163 GHz  -45.361 dBm  Start 1.000 GHz  #Res BW 1.0 MHz  #VBW 3.0 MHz  Sweep 5.067 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				

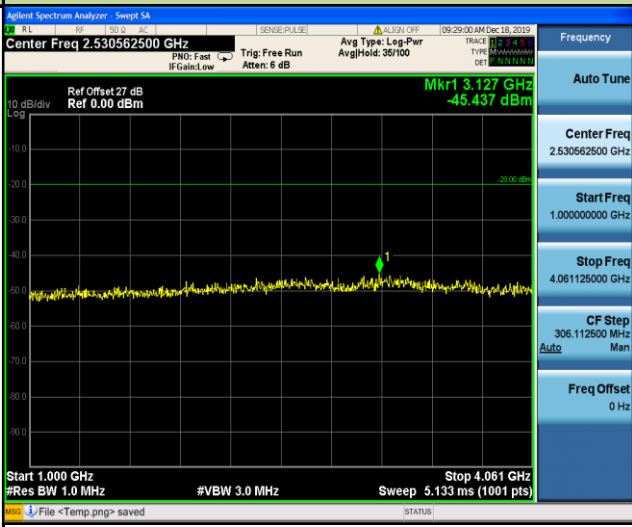
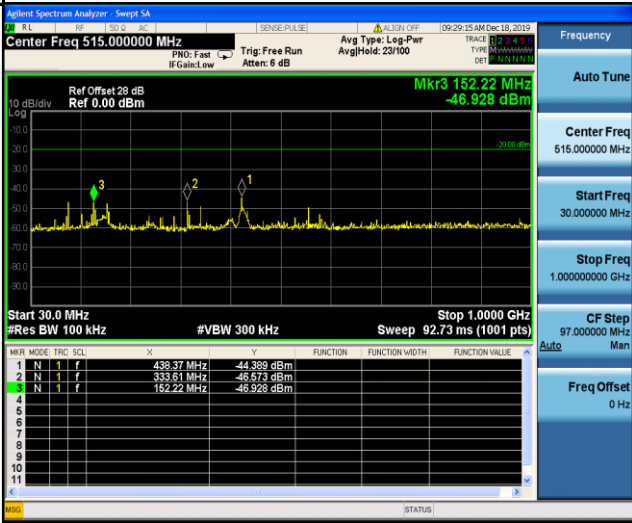
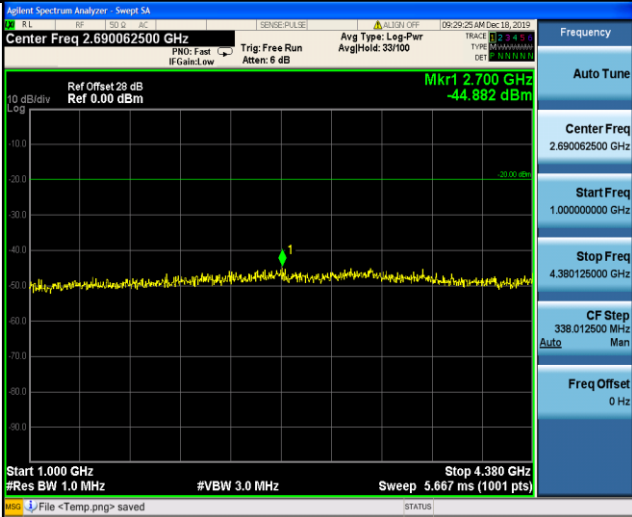


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TX-ANH	FM	CH <sub>M3</sub>	 <p>Agilent Spectrum Analyzer - Swept SA            Center Freq 515.000000 MHz            Ref Offset 28 dB            Ref 0.00 dBm            Mkr3 152.22 MHz            -46.928 dBm            Start 30.0 MHz            #Res BW 100 kHz            #VBW 300 kHz            Sweep 92.73 ms (1001 pts)</p> <table border="1" data-bbox="596 1243 1230 1422"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>438.37 MHz</td> <td>-44.808 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>333.81 MHz</td> <td>-46.873 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>152.22 MHz</td> <td>-46.928 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	438.37 MHz	-44.808 dBm				2	N	1	f	333.81 MHz	-46.873 dBm				3	N	1	f	152.22 MHz	-46.928 dBm			
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TX-ANH	FM	CH <sub>H</sub>	<p style="text-align: center;"><b>30MHz~1GHz</b></p>
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----End of Report----