



Appendix Report
FCC PART 90 Test Form

QRE315 V 3.1 (2019-11)

Project No.	SHT2004013801EW		
Test sample No.	YPHT20040138002	Model No.	EM8100 U5
Start test date	2020/4/15	Finish date	2020/4/16
Temperature	22.5	Humidity	51
Test Engineer	<i>Patrick . Bin</i>	Auditor	<i>William . wang</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	4/16	PASS
B	Occupied Bandwidth	4/16	PASS
C	Emission Mask	4/15	PASS
D	Modulation Limit	4/16	PASS
E	Aduio Frequency Response	4/16	PASS
F	Frequency Stability Test & Temperature	4/16	PASS
G	Frequency Stability Test & Voltage	4/16	PASS
H	Transmitter Frequency Behavior	4/15	PASS
I	Spurious Emission On Antenna Port	4/15	PASS

**Appendix A:Maximum Transmitter Power**

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	45.0	31.28	35.00	-10.6	±20	PASS
TX-DNH	4FSK	CH _{M2}	44.6	28.84	35.00	-17.6	±20	PASS
TX-DNH	4FSK	CH _H	44.7	29.51	35.00	-15.7	±20	PASS
TX-DNL	4FSK	CH _L	37.0	4.99	5.00	-0.1	±20	PASS
TX-DNL	4FSK	CH _{M2}	36.3	4.27	5.00	-14.7	±20	PASS
TX-DNL	4FSK	CH _H	36.8	4.83	5.00	-3.3	±20	PASS
TX-ANH	FM	CH _L	45.4	34.54	35.00	-1.3	±20	PASS
TX-ANH	FM	CH _{M2}	44.9	30.74	35.00	-12.2	±20	PASS
TX-ANH	FM	CH _H	44.8	30.53	35.00	-12.8	±20	PASS
TX-ANL	FM	CH _L	37.5	5.63	5.00	12.6	±20	PASS
TX-ANL	FM	CH _{M2}	36.2	4.17	5.00	-16.6	±20	PASS
TX-ANL	FM	CH _H	36.9	4.92	5.00	-1.5	±20	PASS
TX-AWH	FM	CH _L	45.4	34.43	35.00	-1.6	±20	PASS
TX-AWH	FM	CH _{M2}	44.7	29.66	35.00	-15.3	±20	PASS
TX-AWH	FM	CH _H	44.9	31.06	35.00	-11.3	±20	PASS
TX-AWL	FM	CH _L	37.1	5.09	5.00	1.7	±20	PASS
TX-AWL	FM	CH _{M2}	36.4	4.37	5.00	-12.7	±20	PASS
TX-AWL	FM	CH _H	36.9	4.91	5.00	-1.7	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.357	9.124	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.316	9.133	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.171	9.115	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.386	9.128	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.251	9.127	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.227	9.117	≤11.25	PASS
TX-ANH	FM	CH _L	9.969	10.161	≤11.25	PASS
TX-ANH	FM	CH _{M2}	9.983	10.163	≤11.25	PASS
TX-ANH	FM	CH _H	9.982	10.169	≤11.25	PASS
TX-ANL	FM	CH _L	9.969	10.162	≤11.25	PASS
TX-ANL	FM	CH _{M2}	9.982	10.169	≤11.25	PASS
TX-ANL	FM	CH _H	9.981	10.169	≤11.25	PASS
TX-AWH	FM	CH _L	14.943	15.654	≤20	PASS
TX-AWH	FM	CH _{M2}	14.955	15.647	≤20	PASS
TX-AWH	FM	CH _H	14.951	15.648	≤20	PASS
TX-AWL	FM	CH _L	14.951	15.655	≤20	PASS
TX-AWL	FM	CH _{M2}	14.940	15.648	≤20	PASS
TX-AWL	FM	CH _H	14.950	15.651	≤20	PASS



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Center Freq: 806.025000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 26 dB</p> <p>10 dB/div Ref 48.88 dBm Log 38.9 28.9 18.9 8.88 -1.12 -11.1 -21.1 -31.1 -41.1</p> <p>Center 806 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.353 kHz Total Power 51.3 dBm Transmit Freq Error 329 Hz OBW Power 99.00 % x dB Bandwidth 9.133 kHz x dB -26.00 dB</p> <p>Frequency Center Freq 806.025000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 815.000000 MHz Center Freq: 815.000000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 26 dB</p> <p>10 dB/div Ref 48.38 dBm Log 38.4 28.4 18.4 8.38 -1.62 -11.6 -21.6 -31.6 -41.6</p> <p>Center 815 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.299 kHz Total Power 50.9 dBm Transmit Freq Error 321 Hz OBW Power 99.00 % x dB Bandwidth 9.133 kHz x dB -26.00 dB</p> <p>Frequency Center Freq 815.000000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 26 dB</p> <p>10 dB/div Ref 47.82 dBm Log 37.8 27.8 17.8 7.82 -2.18 -12.2 -22.2 -32.2 -42.2</p> <p>Center 824 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.201 kHz Total Power 50.3 dBm Transmit Freq Error 352 Hz OBW Power 99.00 % x dB Bandwidth 9.122 kHz x dB -26.00 dB</p> <p>Frequency Center Freq 823.975000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Center Freq: 806.025000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None #IF Gain: 1.0 #Atten: 22 dB Radio Device: BTS</p> <p>10 dB/div Ref 43.99 dBm Log 34.0 34.0 14.0 14.0 6.01 6.01 16.0 16.0 36.0 36.0 46.0 46.0</p> <p>Center 806 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.413 kHz Total Power 43.5 dBm Transmit Freq Error 316 Hz OBW Power 99.00 % x dB Bandwidth 9.128 kHz x dB -26.00 dB</p> <p>Frequency Center Freq 806.025000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 815.000000 MHz Center Freq: 815.000000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None #IF Gain: 1.0 #Atten: 20 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.13 dBm Log 31.1 31.1 11.1 11.1 8.07 8.07 16.9 16.9 36.9 36.9 46.9 46.9</p> <p>Center 815 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.278 kHz Total Power 41.1 dBm Transmit Freq Error 366 Hz OBW Power 99.00 % x dB Bandwidth 9.129 kHz x dB -26.00 dB</p> <p>Frequency Center Freq 815.000000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None #IF Gain: 1.0 #Atten: 22 dB Radio Device: BTS</p> <p>10 dB/div Ref 43.06 dBm Log 33.1 33.1 13.1 13.1 9.06 9.06 16.9 16.9 36.9 36.9 46.9 46.9</p> <p>Center 824 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 7.225 kHz Total Power 43.2 dBm Transmit Freq Error 349 Hz OBW Power 99.00 % x dB Bandwidth 9.117 kHz x dB -26.00 dB</p> <p>Frequency Center Freq 823.975000 MHz CF Step 5.000 kHz Freq Offset 0 Hz</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Total Power 45.7 dBm Occupied Bandwidth 9.969 kHz Transmit Freq Error 268 Hz x dB Bandwidth 10.16 kHz</p>
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 815.000000 MHz Total Power 44.8 dBm Occupied Bandwidth 9.983 kHz Transmit Freq Error 334 Hz x dB Bandwidth 10.16 kHz</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Total Power 44.9 dBm Occupied Bandwidth 9.981 kHz Transmit Freq Error 349 Hz x dB Bandwidth 10.17 kHz</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Center Freq: 806.025000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 40.75 dBm</p> <p>Center 806 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.969 kHz Total Power 37.1 dBm</p> <p>Transmit Freq Error 265 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 806.025000 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 815.000000 MHz Center Freq: 815.000000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 38.68 dBm</p> <p>Center 815 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.982 kHz Total Power 34.6 dBm</p> <p>Transmit Freq Error 347 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz x dB -26.00 dB</p> <p>Frequency: 815.000000 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 40.82 dBm</p> <p>Center 824 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.981 kHz Total Power 36.7 dBm</p> <p>Transmit Freq Error 347 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz x dB -26.00 dB</p> <p>Frequency: 823.975000 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 806.025000 MHz Center Freq: 806.025000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 49.10 dBm</p> <p>Center 806 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.943 kHz Total Power 46.1 dBm</p> <p>Transmit Freq Error 244 Hz OBW Power 99.00 % x dB Bandwidth 15.65 kHz x dB -26.00 dB</p> <p>Frequency: 806.025000 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-AWH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 815.000000 MHz Center Freq: 815.000000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 48.95 dBm</p> <p>Center 815 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.955 kHz Total Power 45.7 dBm</p> <p>Transmit Freq Error 316 Hz OBW Power 99.00 % x dB Bandwidth 15.65 kHz x dB -26.00 dB</p> <p>Frequency: 815.000000 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-AWH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 823.975000 MHz Center Freq: 823.975000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 48.58 dBm</p> <p>Center 824 MHz #Res BW 300 Hz #VBW 1 kHz Span 50 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.950 kHz Total Power 45.3 dBm</p> <p>Transmit Freq Error 317 Hz OBW Power 99.00 % x dB Bandwidth 15.65 kHz x dB -26.00 dB</p> <p>Frequency: 823.975000 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 806.025000 MHz</p> <p>Center Freq 806.025000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 20 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.15 dBm</p> <p>Center 806 MHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Span 50 kHz</p> <p>Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.951 kHz</p> <p>Total Power 38.1 dBm</p> <p>Transmit Freq Error 244 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.65 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 806.025000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-AWL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 815.000000 MHz</p> <p>Center Freq 815.000000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 18 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 38.69 dBm</p> <p>Center 815 MHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Span 50 kHz</p> <p>Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.939 kHz</p> <p>Total Power 35.7 dBm</p> <p>Transmit Freq Error 231 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.65 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 815.000000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-AWL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 823.975000 MHz</p> <p>Center Freq 823.975000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 20 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 40.84 dBm</p> <p>Center 824 MHz</p> <p>#Res BW 300 Hz</p> <p>#VBW 1 kHz</p> <p>Span 50 kHz</p> <p>Sweep 527.2 ms</p> <p>Occupied Bandwidth 14.950 kHz</p> <p>Total Power 37.8 dBm</p> <p>Transmit Freq Error 323 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.65 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 823.975000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>MultiView Spectrum Ref Level 47.00 dBm Offset 26 dB RBW 300 Hz Att 26 dB SWI 14 ms (~24 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 44.81 dBm 806.02540 MHz CF 806.025 MHz 1001 pts 15.0 kHz / Span 150.0 kHz Date: 15.APR.2020 13:22:00</p>
TX-DNH	4FSK	CH _{M2}	<p>MultiView Spectrum Ref Level 47.00 dBm Offset 26 dB RBW 300 Hz Att 26 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 44.31 dBm 815.0002800 MHz CF 815.0 MHz 1001 pts 4.0 kHz / Span 40.0 kHz Date: 15.APR.2020 13:46:16</p>
TX-DNH	4FSK	CH _H	<p>MultiView Spectrum Ref Level 47.00 dBm Offset 26 dB RBW 300 Hz Att 26 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 44.55 dBm 823.9752800 MHz CF 823.975 MHz 1001 pts 4.0 kHz / Span 40.0 kHz Date: 15.APR.2020 14:09:13</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	<p>MultiView Spectrum Ref Level 39.00 dBm Offset 18 dB RBW 300 Hz Att 18 dB SWT 14 ms (~24 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 36.67 dBm 806.025300 MHz CF 806.025 MHz 1001 pts 15.0 kHz/ Span 150.0 kHz Date: 15.APR.2020 13:29:28</p>
TX-DNL	4FSK	CH _{M2}	<p>MultiView Spectrum Ref Level 37.00 dBm Offset 16 dB RBW 300 Hz Att 16 dB SWT 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 34.31 dBm 815.0002800 MHz CF 815.0 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Date: 15.APR.2020 13:39:47</p>
TX-DNL	4FSK	CH _H	<p>MultiView Spectrum Ref Level 39.00 dBm Offset 18 dB RBW 300 Hz Att 18 dB SWT 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 36.75 dBm 823.9754000 MHz CF 823.975 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Date: 15.APR.2020 14:14:15</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M2}	
TX-ANH	FM	CH _H	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	
TX-ANL	FM	CH _{M2}	
TX-ANL	FM	CH _H	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	
TX-AWH	FM	CH _{M2}	
TX-AWH	FM	CH _H	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	<p>MultiView Spectrum Ref Level 39.00 dBm Offset 30.50 dB RBW 300 Hz Att 18 dB SWI 14 ms (~24 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 36.82 dBm 806.025300 MHz CF 806.025 MHz 1001 pts 15.0 kHz/ Span 150.0 kHz Date: 15.APR.2020 15:24:18</p>
TX-AWL	FM	CH _{M2}	<p>MultiView Spectrum Ref Level 39.00 dBm Offset 30.50 dB RBW 300 Hz Att 18 dB SWI 14 ms (~24 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 36.82 dBm 815.000360 MHz CF 815.0 MHz 1001 pts 15.0 kHz/ Span 150.0 kHz Date: 15.APR.2020 15:31:38</p>
TX-AWL	FM	CH _H	<p>MultiView Spectrum Ref Level 39.00 dBm Offset 30.50 dB RBW 300 Hz Att 18 dB SWI 14 ms (~24 ms) VBW 1 kHz Mode Auto FFT Frequency Sweep MI[1] 36.68 dBm 823.975300 MHz CF 823.975 MHz 1001 pts 15.0 kHz/ Span 150.0 kHz Date: 15.APR.2020 15:34:45</p>

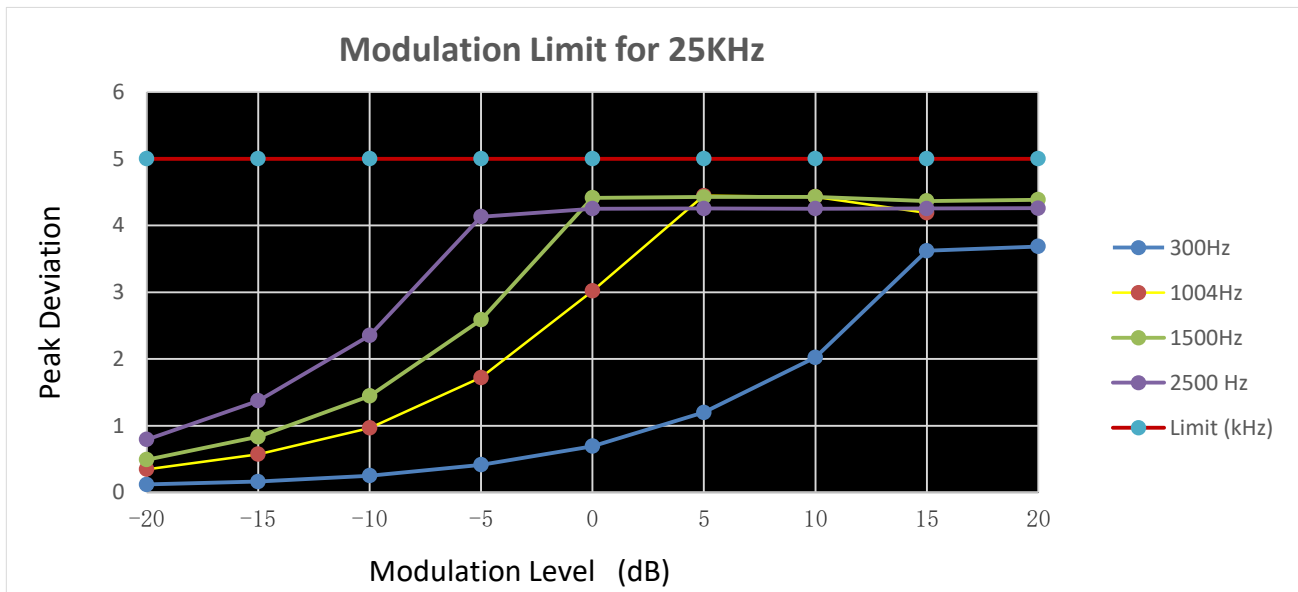
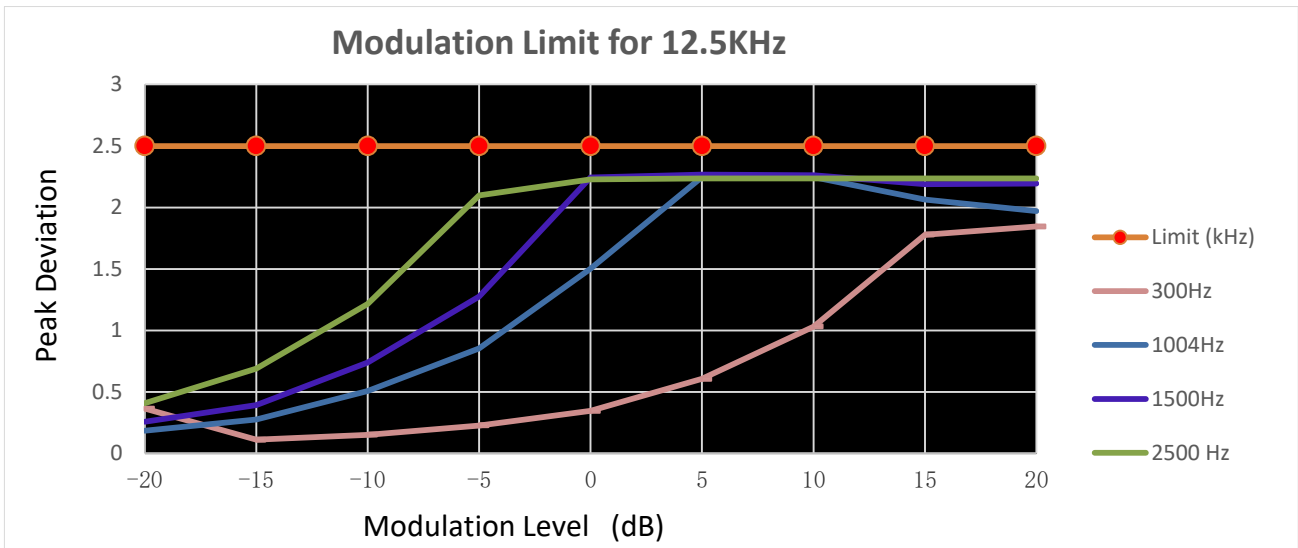
**Appendix D:Modulation Limit**

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	0.364	0.186	0.259	0.41	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.112	0.277	0.393	0.691	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.152	0.508	0.739	1.215	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.228	0.855	1.277	2.099	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.346	1.502	2.243	2.228	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.606	2.247	2.266	2.237	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.032	2.247	2.262	2.235	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.779	2.065	2.188	2.236	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.845	1.97	2.194	2.237	2.5	PASS
TX-AWH	FM	CH _{M2}	-20	0.12	0.347	0.491	0.794	5	PASS
TX-AWH	FM	CH _{M2}	-15	0.164	0.574	0.835	1.374	5	PASS
TX-AWH	FM	CH _{M2}	-10	0.252	0.966	1.446	2.353	5	PASS
TX-AWH	FM	CH _{M2}	-5	0.415	1.722	2.587	4.132	5	PASS
TX-AWH	FM	CH _{M2}	0	0.693	3.02	4.414	4.252	5	PASS
TX-AWH	FM	CH _{M2}	5	1.2	4.445	4.427	4.253	5	PASS
TX-AWH	FM	CH _{M2}	10	2.024	4.428	4.43	4.252	5	PASS
TX-AWH	FM	CH _{M2}	15	3.621	4.189	4.367	4.254	5	PASS
TX-AWH	FM	CH _{M2}	20	3.686	4.216	4.385	4.258	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	-29.91			PASS
TX-ANH	FM	CH _{M2}	200	-30.31			PASS
TX-ANH	FM	CH _{M2}	300	-13.02	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-9.38	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.82	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.97	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.57	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.23	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.09	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.02	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.76	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.94	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.27	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.27	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.11	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.65	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	7.01	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	7.39	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	7.59	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	8.03	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	8.51	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.95	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.11	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.80	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	5.33	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-30.33			PASS
TX-ANH	FM	CH _{M2}	4000	-30.20			PASS
TX-ANH	FM	CH _{M2}	4500	-30.04			PASS
TX-ANH	FM	CH _{M2}	5000	-30.27			PASS
TX-AWH	FM	CH _{M2}	100	-35.73			PASS
TX-AWH	FM	CH _{M2}	200	-35.78			PASS
TX-AWH	FM	CH _{M2}	300	-13.07	-17.84	-9.42	PASS
TX-AWH	FM	CH _{M2}	400	-9.55	-12.86	-6.93	PASS
TX-AWH	FM	CH _{M2}	500	-6.78	-9.00	-5.00	PASS
TX-AWH	FM	CH _{M2}	600	-4.96	-7.42	-3.42	PASS
TX-AWH	FM	CH _{M2}	700	-3.53	-6.09	-2.09	PASS
TX-AWH	FM	CH _{M2}	800	-2.21	-4.93	-0.93	PASS
TX-AWH	FM	CH _{M2}	900	-1.06	-3.91	0.09	PASS
TX-AWH	FM	CH _{M2}	1000	0.03	-3.00	1.00	PASS
TX-AWH	FM	CH _{M2}	1200	1.78	-1.42	2.58	PASS
TX-AWH	FM	CH _{M2}	1400	2.96	-0.09	3.91	PASS
TX-AWH	FM	CH _{M2}	1600	4.29	1.07	5.07	PASS

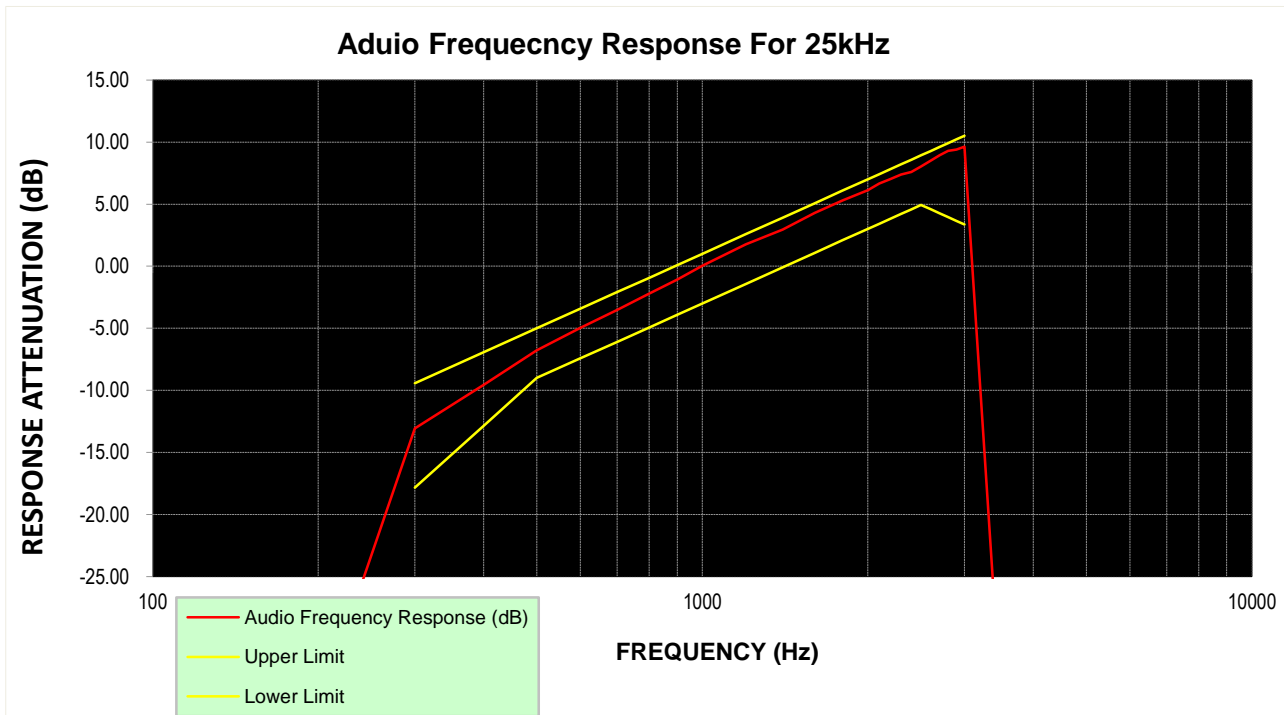
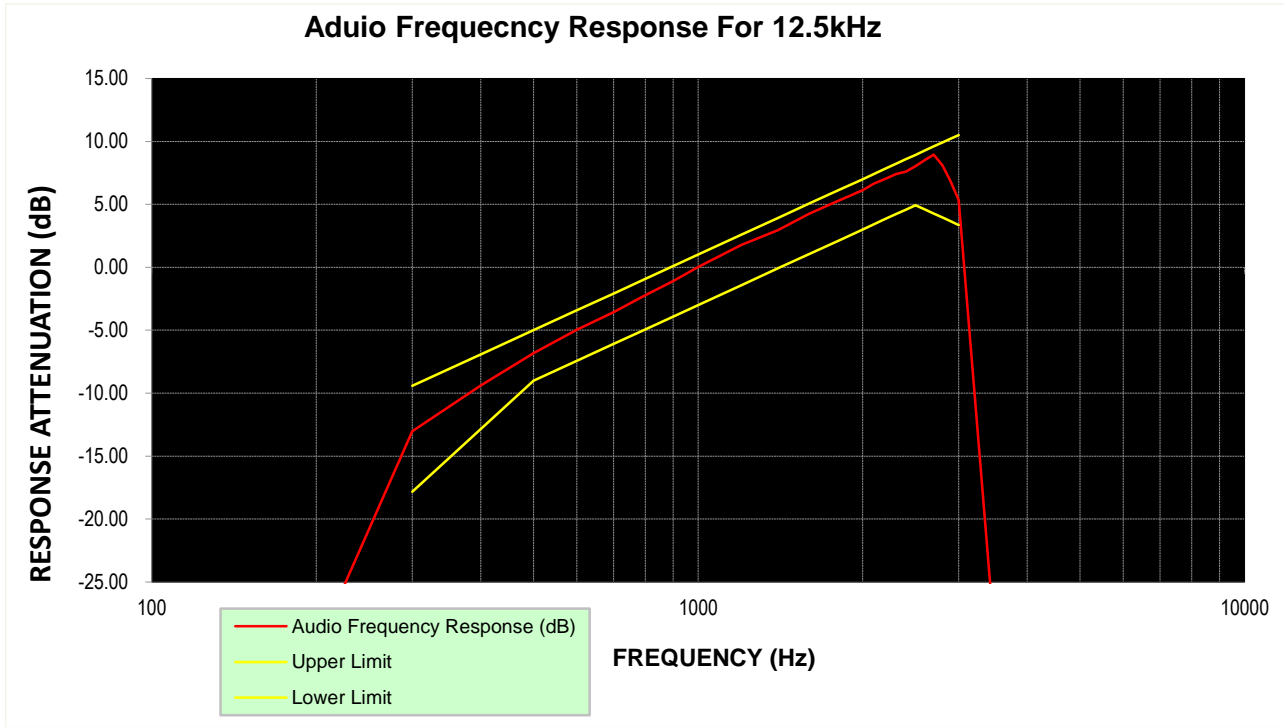
**Appendix E:Audio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _{M2}	1800	5.29	2.09	6.09	PASS
TX-AWH	FM	CH _{M2}	2000	6.14	3.00	7.00	PASS
TX-AWH	FM	CH _{M2}	2100	6.67	3.42	7.42	PASS
TX-AWH	FM	CH _{M2}	2200	7.02	3.83	7.83	PASS
TX-AWH	FM	CH _{M2}	2300	7.40	4.21	8.21	PASS
TX-AWH	FM	CH _{M2}	2400	7.60	4.58	8.58	PASS
TX-AWH	FM	CH _{M2}	2500	8.03	4.93	8.93	PASS
TX-AWH	FM	CH _{M2}	2600	8.50	4.59	9.27	PASS
TX-AWH	FM	CH _{M2}	2700	8.93	4.27	9.60	PASS
TX-AWH	FM	CH _{M2}	2800	9.29	3.95	9.91	PASS
TX-AWH	FM	CH _{M2}	2900	9.41	3.65	10.22	PASS
TX-AWH	FM	CH _{M2}	3000	9.62	3.35	10.51	PASS
TX-AWH	FM	CH _{M2}	3500	-35.66			PASS
TX-AWH	FM	CH _{M2}	4000	-36.14			PASS
TX-AWH	FM	CH _{M2}	4500	-35.84			PASS
TX-AWH	FM	CH _{M2}	5000	-35.84			PASS



Appendix E:Audio 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 _L	CH _{M2}	CH _H		
TX-DNH	4FSK	V _N	-30	0.256	0.264	0.237	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.249	0.253	0.231	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.245	0.259	0.225	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.252	0.271	0.226	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.263	0.258	0.230	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.245	0.251	0.221	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.249	0.258	0.240	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.248	0.262	0.238	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.265	0.271	0.234	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.271	0.281	0.239	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.278	0.265	0.248	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.279	0.263	0.262	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.274	0.273	0.260	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.263	0.276	0.248	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.255	0.256	0.239	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.271	0.269	0.246	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.279	0.270	0.254	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.271	0.262	0.256	±5.0	PASS
TX-ANH	FM	V _N	-30	0.401	0.520	0.506	±5.0	PASS
TX-ANH	FM	V _N	-20	0.422	0.492	0.516	±5.0	PASS
TX-ANH	FM	V _N	-10	0.408	0.509	0.516	±5.0	PASS
TX-ANH	FM	V _N	0	0.416	0.477	0.487	±5.0	PASS
TX-ANH	FM	V _N	10	0.413	0.492	0.495	±5.0	PASS
TX-ANH	FM	V _N	20	0.386	0.474	0.480	±5.0	PASS
TX-ANH	FM	V _N	30	0.423	0.506	0.490	±5.0	PASS
TX-ANH	FM	V _N	40	0.405	0.479	0.506	±5.0	PASS
TX-ANH	FM	V _N	55	0.405	0.513	0.508	±5.0	PASS
TX-ANL	FM	V _N	-30	0.419	0.508	0.493	±5.0	PASS
TX-ANL	FM	V _N	-20	0.394	0.506	0.491	±5.0	PASS
TX-ANL	FM	V _N	-10	0.389	0.507	0.525	±5.0	PASS
TX-ANL	FM	V _N	0	0.397	0.487	0.513	±5.0	PASS
TX-ANL	FM	V _N	10	0.410	0.487	0.516	±5.0	PASS
TX-ANL	FM	V _N	20	0.386	0.468	0.478	±5.0	PASS
TX-ANL	FM	V _N	30	0.411	0.474	0.479	±5.0	PASS
TX-ANL	FM	V _N	40	0.407	0.479	0.486	±5.0	PASS
TX-ANL	FM	V _N	55	0.394	0.470	0.506	±5.0	PASS
TX-AWH	FM	V _N	-30	0.383	0.382	0.487	±5.0	PASS
TX-AWH	FM	V _N	-20	0.367	0.391	0.479	±5.0	PASS
TX-AWH	FM	V _N	-10	0.365	0.391	0.498	±5.0	PASS
TX-AWH	FM	V _N	0	0.390	0.395	0.484	±5.0	PASS
TX-AWH	FM	V _N	10	0.363	0.371	0.514	±5.0	PASS
TX-AWH	FM	V _N	20	0.362	0.360	0.472	±5.0	PASS
TX-AWH	FM	V _N	30	0.388	0.379	0.486	±5.0	PASS

**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-AWH	FM	V _N	40	0.391	0.390	0.517	±5.0	PASS
TX-AWH	FM	V _N	55	0.364	0.369	0.515	±5.0	PASS
TX-AWL	FM	V _N	-30	0.365	0.371	0.504	±5.0	PASS
TX-AWL	FM	V _N	-20	0.394	0.349	0.493	±5.0	PASS
TX-AWL	FM	V _N	-10	0.400	0.348	0.497	±5.0	PASS
TX-AWL	FM	V _N	0	0.381	0.371	0.485	±5.0	PASS
TX-AWL	FM	V _N	10	0.395	0.362	0.478	±5.0	PASS
TX-AWL	FM	V _N	20	0.365	0.347	0.474	±5.0	PASS
TX-AWL	FM	V _N	30	0.389	0.381	0.512	±5.0	PASS
TX-AWL	FM	V _N	40	0.383	0.362	0.520	±5.0	PASS
TX-AWL	FM	V _N	55	0.377	0.371	0.497	±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	0.245	0.251	0.221	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.248	0.253	0.223	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.256	0.257	0.232	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.255	0.256	0.239	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.260	0.258	0.239	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.267	0.271	0.242	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.386	0.474	0.480	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.386	0.480	0.480	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.398	0.491	0.492	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.386	0.468	0.478	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.389	0.471	0.481	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.406	0.471	0.486	±5.0	PASS
TX-AWH	FM	V _N	T _N	0.362	0.360	0.472	±5.0	PASS
TX-AWH	FM	V _L	T _N	0.362	0.364	0.480	±5.0	PASS
TX-AWH	FM	V _H	T _N	0.380	0.376	0.484	±5.0	PASS
TX-AWL	FM	V _N	T _N	0.365	0.347	0.474	±5.0	PASS
TX-AWL	FM	V _L	T _N	0.366	0.354	0.482	±5.0	PASS
TX-AWL	FM	V _H	T _N	0.376	0.363	0.481	±5.0	PASS



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-ANH	FM	CH _{M2}	<p>Carrier Power 44.41 dBm Carrier Offset 272.81 Hz</p> <table border="1"> <thead> <tr> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>+Peak 12.008 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>-Peak -12.504 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>±Peak/2 12.256 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>RMS 8.7029 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>Mod. Freq. 1.0001 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>OFF~ON</p>	Mod. Freq.	SINAD	THD	+Peak 12.008 kHz	---	---	-Peak -12.504 kHz	---	---	±Peak/2 12.256 kHz	---	---	RMS 8.7029 kHz	---	---	Mod. Freq. 1.0001 kHz	---	---
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RMS 8.7029 kHz	---	---																			
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TX-ANH	FM	CH _{M2}	<p>Carrier Power 44.16 dBm Carrier Offset 269.11 Hz</p> <table border="1"> <thead> <tr> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>+Peak 12.812 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>-Peak -12.977 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>±Peak/2 12.894 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>RMS 2.7551 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>ON-OFF</p>	Mod. Freq.	SINAD	THD	+Peak 12.812 kHz	---	---	-Peak -12.977 kHz	---	---	±Peak/2 12.894 kHz	---	---	RMS 2.7551 kHz	---	---			
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TX-AWH	FM	CH _{M2}	<p>Carrier Power 44.48 dBm Carrier Offset 272.00 Hz</p> <table border="1"> <thead> <tr> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>+Peak 25.01 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>-Peak -25.249 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>±Peak/2 25.129 kHz</td> <td>---</td> <td>---</td> </tr> <tr> <td>RMS 5.4841 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>OFF~ON</p>	Mod. Freq.	SINAD	THD	+Peak 25.01 kHz	---	---	-Peak -25.249 kHz	---	---	±Peak/2 25.129 kHz	---	---	RMS 5.4841 kHz	---	---			
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Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																												
TX-AWH	FM	CH _{M2}	<p>TEST PLOT RESULT</p> <p>Multiview Analog Demod</p> <p>Ref Level 47.00 dBm Offset 37.50 dB Att 19 dB A/Q1 100 ms BW 50 kHz Freq 815.0 MHz TRG:JPR (17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 815.0 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></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>44.14 dBm</td> <td>270.13 Hz</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FM</td> <td>+Peak 26.551 kHz</td> <td>-Peak -25.942 kHz</td> <td>±Peak/2 26.246 kHz</td> <td>RMS 5.4902 kHz</td> <td>Mod. Freq. ---</td> <td>SINAD ---</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>THD ---</td> <td></td> </tr> </tbody> </table> <p>Date: 15.APR.2020 17:18:38</p> <p style="text-align: center;">ON-OFF</p>		Carrier Power	Carrier Offset						44.14 dBm	270.13 Hz					FM	+Peak 26.551 kHz	-Peak -25.942 kHz	±Peak/2 26.246 kHz	RMS 5.4902 kHz	Mod. Freq. ---	SINAD ---						THD ---	
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CHL	<table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr> <td>30.000 MHz</td> <td>1.000 GHz</td> <td>100.000 kHz</td> <td>806.02122 MHz</td> <td>44.41 dBm</td> <td>-200.00 dB</td> </tr> <tr> <td>1.000 GHz</td> <td>9.000 GHz</td> <td>1.000 MHz</td> <td>7.91166 GHz</td> <td>-23.91 dBm</td> <td>-200.00 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	806.02122 MHz	44.41 dBm	-200.00 dB	1.000 GHz	9.000 GHz	1.000 MHz	7.91166 GHz	-23.91 dBm	-200.00 dB
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
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----End of Report----