

**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 400.100000 MHz Center Freq: 400.100000 MHz Radio Std: None</p> <p>IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 21 dB Ref: 36.0 dBm</p> <p>Center 400.1 MHz Span 120 kHz</p> <p>Total Power Ref: 30.34 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>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>30.34</td> <td>(-1.21)</td> <td>0.0</td> <td>30.34</td> <td>(-1.21)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.38</td> <td>(-4.50)</td> <td>-12.50 k</td> <td>-44.49</td> <td>(-4.61)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.90</td> <td>(-22.80)</td> <td>-16.80 k</td> <td>-43.49</td> <td>(-23.49)</td> <td>13.70 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table> <p>MSG File &lt;MASK D.state&gt; recalled</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.34	(-1.21)	0.0	30.34	(-1.21)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.38	(-4.50)	-12.50 k	-44.49	(-4.61)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.90	(-22.80)	-16.80 k	-43.49	(-23.49)	13.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

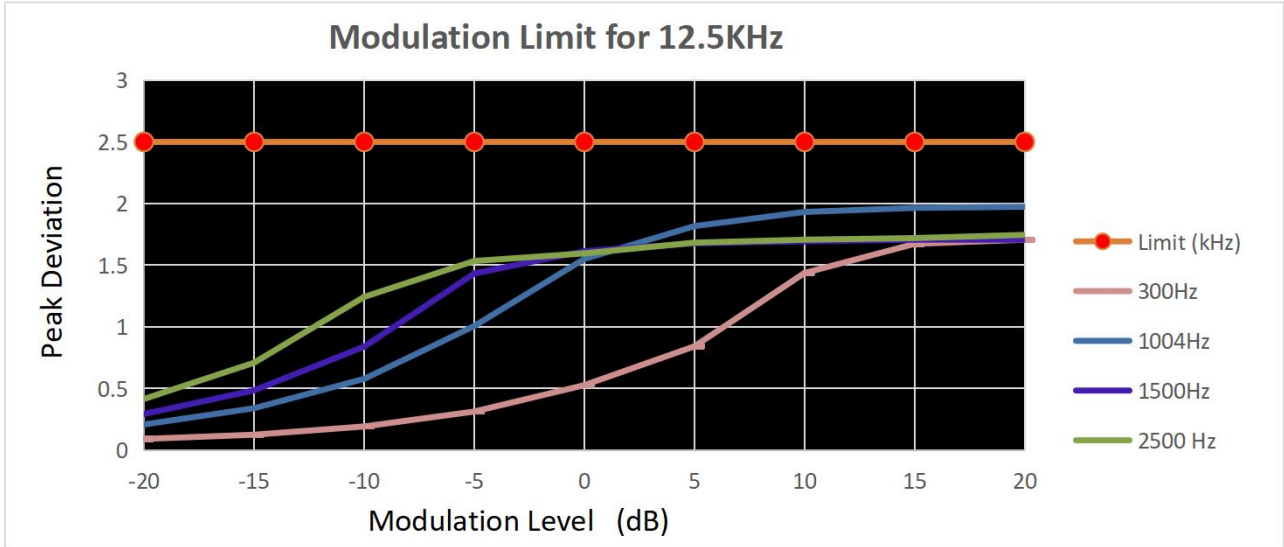
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Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Peak Freq (Hz)																																																										
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5.625 kHz	12.50 kHz	100.0 Hz	-39.85	(-2.27)	-12.25 k	-40.84	(-2.17)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-40.48	(-20.48)	-12.85 k	-39.92	(-19.92)	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	—	(—)	—	—	(—)	—																																																										

**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>M</sub>	-20	0.091	0.208	0.293	0.415	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	-15	0.125	0.340	0.485	0.709	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	-10	0.192	0.578	0.839	1.243	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	-5	0.313	1.007	1.433	1.534	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	0	0.527	1.551	1.614	1.596	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	5	0.842	1.817	1.677	1.683	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	10	1.437	1.932	1.694	1.707	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	15	1.673	1.965	1.707	1.720	2.5	PASS
TX-ANH	FM	CH <sub>M</sub>	20	1.707	1.974	1.711	1.746	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

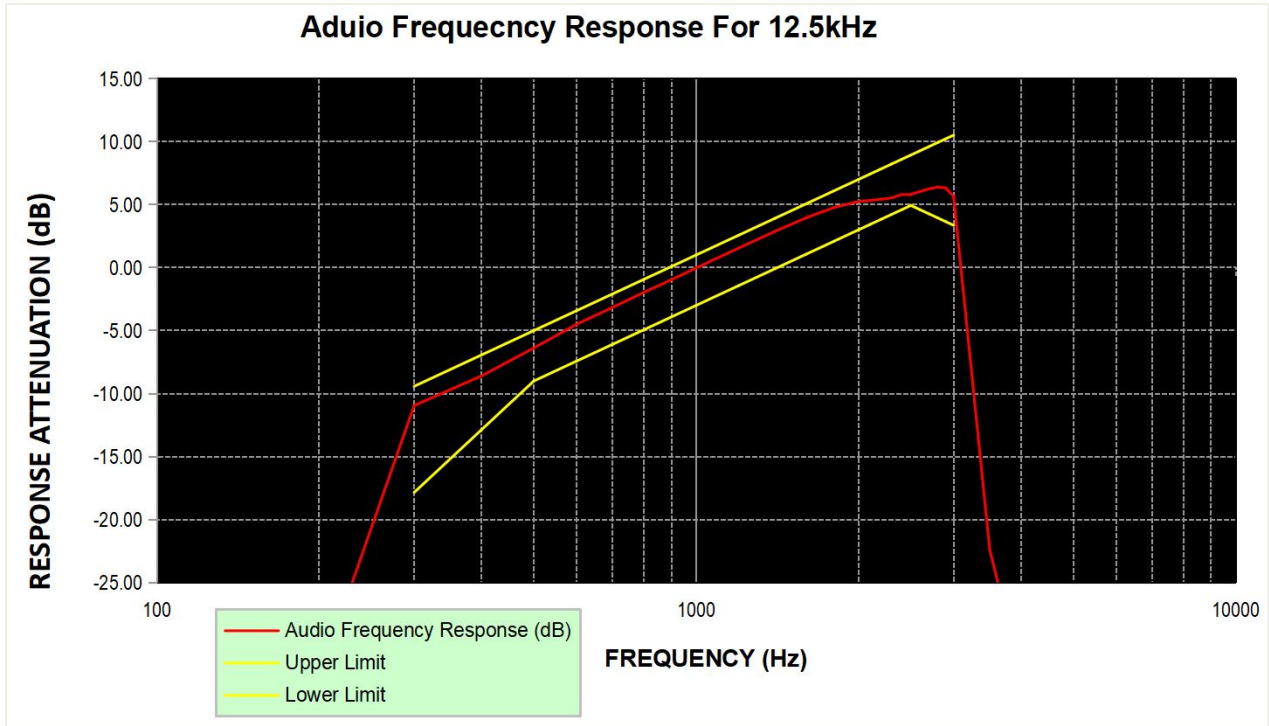


**Appendix E:Audio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH <sub>M</sub>	100	-33.20			PASS
TX-ANH	FM	CH <sub>M</sub>	200	-32.48			PASS
TX-ANH	FM	CH <sub>M</sub>	300	-10.95	-17.84	-9.42	PASS
TX-ANH	FM	CH <sub>M</sub>	400	-8.60	-12.86	-6.93	PASS
TX-ANH	FM	CH <sub>M</sub>	500	-6.38	-9.00	-5.00	PASS
TX-ANH	FM	CH <sub>M</sub>	600	-4.50	-7.42	-3.42	PASS
TX-ANH	FM	CH <sub>M</sub>	700	-3.16	-6.09	-2.09	PASS
TX-ANH	FM	CH <sub>M</sub>	800	-1.96	-4.93	-0.93	PASS
TX-ANH	FM	CH <sub>M</sub>	900	-0.96	-3.91	0.09	PASS
TX-ANH	FM	CH <sub>M</sub>	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH <sub>M</sub>	1200	1.56	-1.42	2.58	PASS
TX-ANH	FM	CH <sub>M</sub>	1400	2.88	-0.09	3.91	PASS
TX-ANH	FM	CH <sub>M</sub>	1600	3.96	1.07	5.07	PASS
TX-ANH	FM	CH <sub>M</sub>	1800	4.77	2.09	6.09	PASS
TX-ANH	FM	CH <sub>M</sub>	2000	5.25	3.00	7.00	PASS
TX-ANH	FM	CH <sub>M</sub>	2100	5.32	3.42	7.42	PASS
TX-ANH	FM	CH <sub>M</sub>	2200	5.42	3.83	7.83	PASS
TX-ANH	FM	CH <sub>M</sub>	2300	5.52	4.21	8.21	PASS
TX-ANH	FM	CH <sub>M</sub>	2400	5.79	4.58	8.58	PASS
TX-ANH	FM	CH <sub>M</sub>	2500	5.81	4.93	8.93	PASS
TX-ANH	FM	CH <sub>M</sub>	2600	6.04	4.59	9.27	PASS
TX-ANH	FM	CH <sub>M</sub>	2700	6.25	4.27	9.60	PASS
TX-ANH	FM	CH <sub>M</sub>	2800	6.39	3.95	9.91	PASS
TX-ANH	FM	CH <sub>M</sub>	2900	6.32	3.65	10.22	PASS
TX-ANH	FM	CH <sub>M</sub>	3000	5.65	3.35	10.51	PASS
TX-ANH	FM	CH <sub>M</sub>	3500	-22.36			PASS
TX-ANH	FM	CH <sub>M</sub>	4000	-32.53			PASS
TX-ANH	FM	CH <sub>M</sub>	4500	-32.39			PASS
TX-ANH	FM	CH <sub>M</sub>	5000	-32.63			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



**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>M</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-0.606	-0.646	-0.665	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-0.641	-0.639	-0.666	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-0.615	-0.628	-0.701	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-0.631	-0.627	-0.697	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-0.593	-0.647	-0.667	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-0.591	-0.606	-0.652	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-0.616	-0.614	-0.700	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-0.605	-0.654	-0.657	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	50	-0.641	-0.659	-0.656	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-0.626	-0.640	-0.669	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-0.616	-0.656	-0.655	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-0.587	-0.643	-0.648	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-0.627	-0.667	-0.693	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-0.591	-0.660	-0.706	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-0.583	-0.611	-0.643	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-0.600	-0.654	-0.703	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-0.591	-0.658	-0.704	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	50	-0.599	-0.665	-0.704	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-30	0.076	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-20	0.082	-0.002	-0.034	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	-10	0.079	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	0	0.076	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	10	0.082	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	20	0.075	-0.002	-0.032	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	30	0.081	-0.002	-0.032	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	40	0.077	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	50	0.080	-0.002	-0.034	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-30	0.043	-0.017	-0.115	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-20	0.044	-0.018	-0.111	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	-10	0.043	-0.017	-0.113	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	0	0.040	-0.018	-0.112	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	10	0.042	-0.017	-0.120	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	20	0.040	-0.017	-0.111	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	30	0.041	-0.018	-0.116	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	40	0.040	-0.017	-0.113	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	50	0.041	-0.018	-0.116	±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>M</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.591	-0.606	-0.652	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.597	-0.607	-0.663	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.625	-0.611	-0.673	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.583	-0.611	-0.643	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.591	-0.613	-0.652	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.591	-0.635	-0.663	±5.0	PASS
TX-ANH	FM	V <sub>N</sub>	T <sub>N</sub>	0.075	-0.002	-0.032	±5.0	PASS
TX-ANH	FM	V <sub>L</sub>	T <sub>N</sub>	0.076	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V <sub>H</sub>	T <sub>N</sub>	0.075	-0.002	-0.033	±5.0	PASS
TX-ANL	FM	V <sub>N</sub>	T <sub>N</sub>	0.040	-0.017	-0.111	±5.0	PASS
TX-ANL	FM	V <sub>L</sub>	T <sub>N</sub>	0.040	-0.017	-0.111	±5.0	PASS
TX-ANL	FM	V <sub>H</sub>	T <sub>N</sub>	0.042	-0.018	-0.117	±5.0	PASS



**Appendix H:Transmitter Frequency Behavior**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CH <sub>M</sub>	<table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 38.14 dBm</th> <th colspan="2">Carrier Offset -24.92 Hz</th> </tr> <tr> <th>FM</th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> </tr> </thead> <tbody> <tr> <td></td> <td>14.692 kHz</td> <td>-12.403 kHz</td> <td>13.547 kHz</td> <td>2.7566 kHz</td> <td>---</td> </tr> </tbody> </table>	4 Result Summary		Carrier Power 38.14 dBm		Carrier Offset -24.92 Hz		FM	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.		14.692 kHz	-12.403 kHz	13.547 kHz	2.7566 kHz	---
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TX-DNH	4FSK	CH <sub>M</sub>	<table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 38.11 dBm</th> <th colspan="2">Carrier Offset -13.19 Hz</th> </tr> <tr> <th>FM</th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> </tr> </thead> <tbody> <tr> <td></td> <td>23.31 kHz</td> <td>-22.618 kHz</td> <td>22.964 kHz</td> <td>2.8195 kHz</td> <td>---</td> </tr> </tbody> </table>	4 Result Summary		Carrier Power 38.11 dBm		Carrier Offset -13.19 Hz		FM	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.		23.31 kHz	-22.618 kHz	22.964 kHz	2.8195 kHz	---
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TX-ANH	FM	CH <sub>M</sub>	<table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 38.18 dBm</th> <th colspan="2">Carrier Offset -38.10 Hz</th> </tr> <tr> <th>FM</th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> </tr> </thead> <tbody> <tr> <td></td> <td>17.352 kHz</td> <td>-12.853 kHz</td> <td>15.103 kHz</td> <td>2.7344 kHz</td> <td>---</td> </tr> </tbody> </table>	4 Result Summary		Carrier Power 38.18 dBm		Carrier Offset -38.10 Hz		FM	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.		17.352 kHz	-12.853 kHz	15.103 kHz	2.7344 kHz	---
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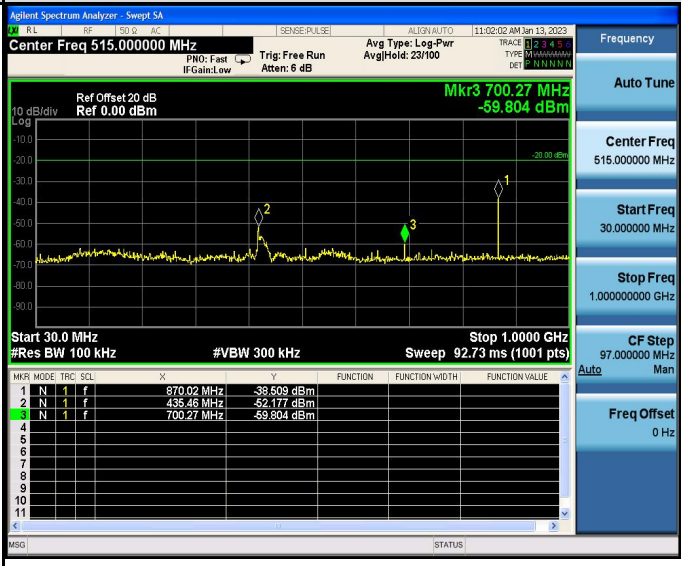
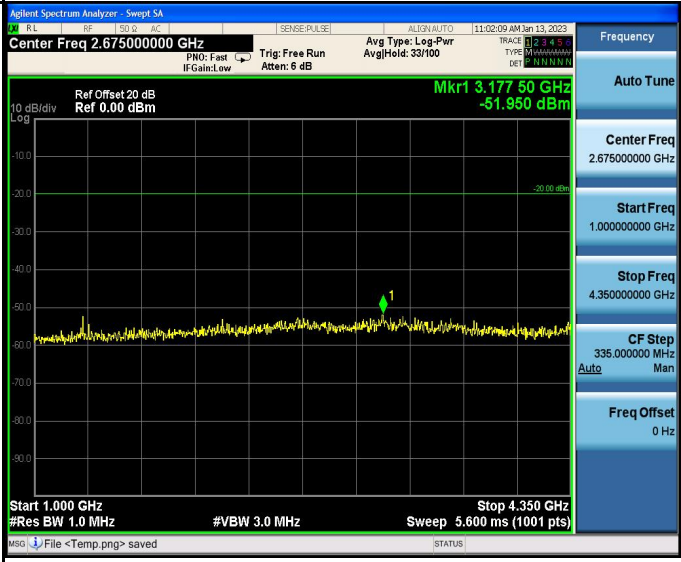
**Appendix H:Transmitter Frequency Behavior**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																											
TX-ANH	FM	CH <sub>M</sub>	<p>                 MultiView   Spectrum   Analog Demod                  Ref Level 47.00 dBm Offset 27.00 dB                  Att 30 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz                  TRG:IF(17MHz) YIG Bypass                  CF 435.0 MHz 1001 pts 10.0 ms/             </p> <table border="1"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th colspan="2">Carrier Power 38.12 dBm</th> <th colspan="2">Carrier Offset -13.46 Hz</th> </tr> <tr> <th>+</th> <th>-</th> <th>+</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>Peak</td> <td>Peak</td> <td>Peak/2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14.689 kHz</td> <td>-35.888 kHz</td> <td>25.288 kHz</td> <td>2.9045 kHz</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>                 Analog Demod: Waiting for Trigger... Measuring... 11.01.2023 10:26:34                  Date: 11 JAN 2023 10:26:34             </p>	4 Result Summary		Carrier Power 38.12 dBm		Carrier Offset -13.46 Hz		+	-	+	RMS	Mod. Freq.	SINAD	THD	Peak	Peak	Peak/2					14.689 kHz	-35.888 kHz	25.288 kHz	2.9045 kHz			
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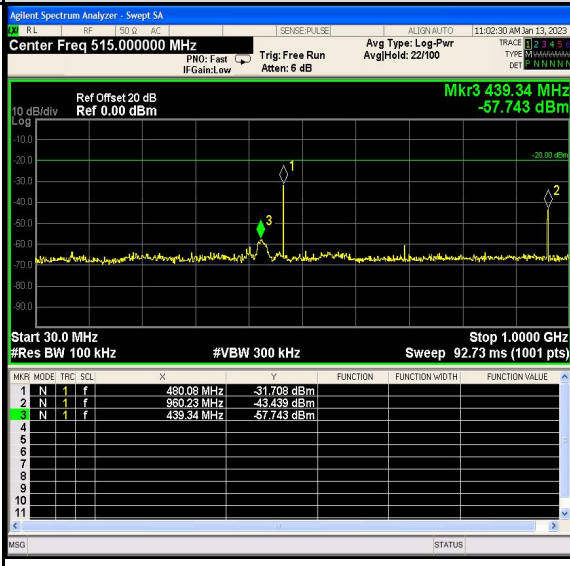
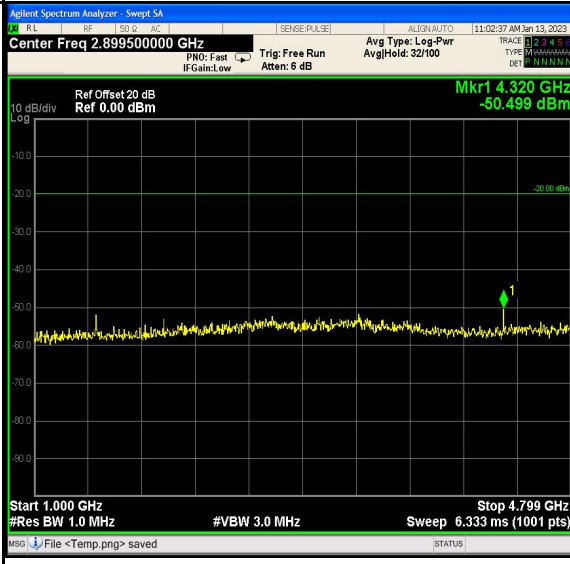
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CHL	<p>Agilent Spectrum Analyzer - Swgpt SA          Center Freq 515.000000 MHz          Ref Offset 20 dB          Ref 0.00 dBm          Mkr3 109.54 MHz          -52.300 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>400.54 MHz</td> <td>-41.744 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>800.15 MHz</td> <td>-44.285 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>F</td> <td>109.54 MHz</td> <td>-52.300 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></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> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></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> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></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> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></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> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	400.54 MHz	-41.744 dBm				2	N	1	F	800.15 MHz	-44.285 dBm				3	N	1	F	109.54 MHz	-52.300 dBm				4									5									6									7									8									9									10									11								
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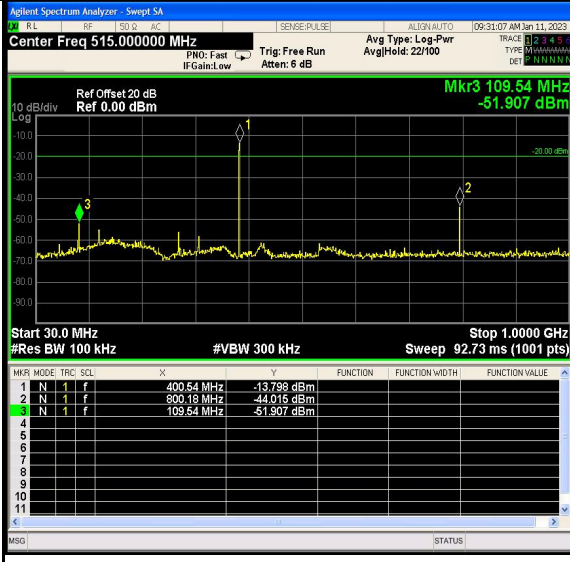
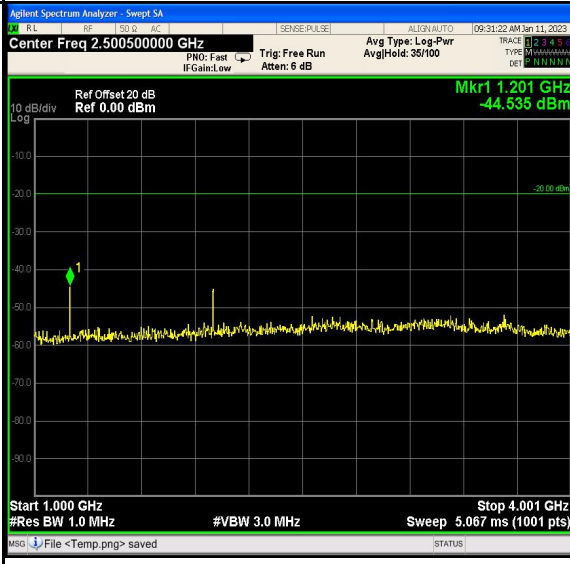
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH <sub>M</sub>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 20 dB Ref 0.00 dBm</p> <p>Mkr3 700.27 MHz -59.804 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SEL</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>870.02 MHz</td> <td>-38.600 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>F</td> <td>438.46 MHz</td> <td>-52.177 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>F</td> <td>700.27 MHz</td> <td>-59.804 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SEL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	F	870.02 MHz	-38.600 dBm				2	N	1	F	438.46 MHz	-52.177 dBm				3	N	1	F	700.27 MHz	-59.804 dBm			
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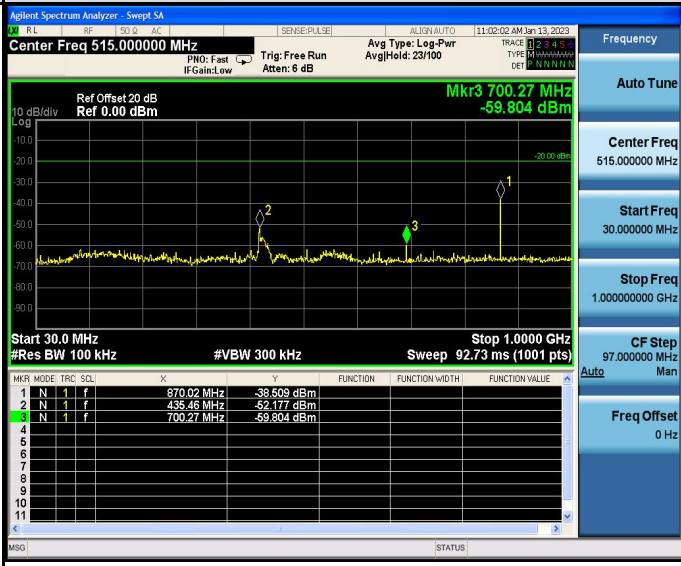

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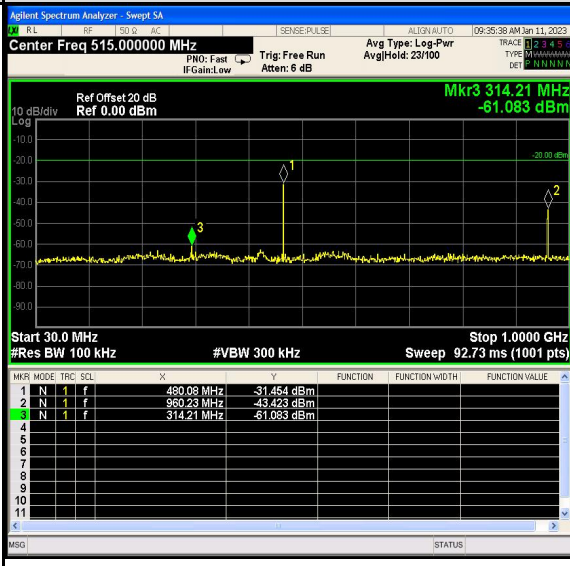
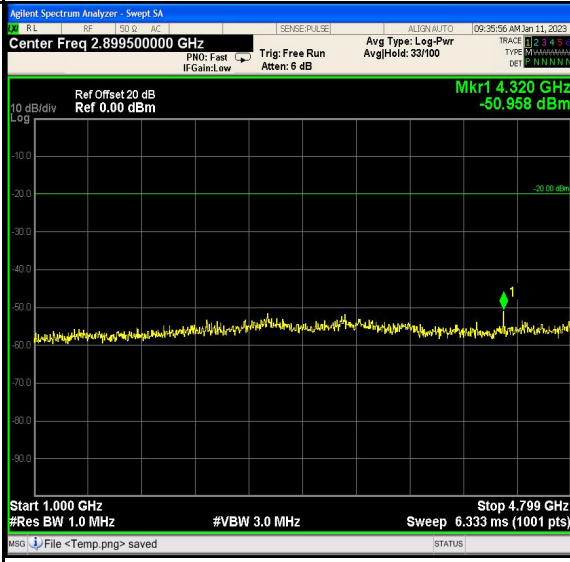
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