



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Center 400 MHz Span 120 kHz</p> <p>Total Power Ref 31.33 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>Peak 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>31.41</td> <td>(-0.89)</td> <td>-250.0</td> <td>-24.88</td> <td>(-57.18)</td> <td>200.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.35</td> <td>(-9.85)</td> <td>-12.00 k</td> <td>-44.26</td> <td>(-5.85)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.53</td> <td>(-20.53)</td> <td>-14.00 k</td> <td>-40.04</td> <td>(-20.04)</td> <td>13.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.41	(-0.89)	-250.0	-24.88	(-57.18)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.35	(-9.85)	-12.00 k	-44.26	(-5.85)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.53	(-20.53)	-14.00 k	-40.04	(-20.04)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None</p> <p>Ref Offset 28 dB Ref 37.0 dBm</p> <p>Center 406 MHz Span 120 kHz</p> <p>Total Power Ref 31.94 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>Peak 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>30.59</td> <td>(-2.16)</td> <td>-200.0</td> <td>22.89</td> <td>(-9.66)</td> <td>2.300 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.72</td> <td>(-2.76)</td> <td>-12.40 k</td> <td>-41.52</td> <td>(-2.83)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-39.42</td> <td>(-19.42)</td> <td>-14.40 k</td> <td>-39.56</td> <td>(-19.56)</td> <td>16.45 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.59	(-2.16)	-200.0	22.89	(-9.66)	2.300 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.72	(-2.76)	-12.40 k	-41.52	(-2.83)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.42	(-19.42)	-14.40 k	-39.56	(-19.56)	16.45 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

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Center 438 MHz Span 120 kHz</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>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>31.25</td> <td>(-1.14)</td> <td>-300.0</td> <td>-26.07</td> <td>(-58.45)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.15</td> <td>(-5.47)</td> <td>-12.45 k</td> <td>-42.72</td> <td>(-4.40)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.24</td> <td>(-22.24)</td> <td>-13.15 k</td> <td>-41.99</td> <td>(-21.99)</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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.25	(-1.14)	-300.0	-26.07	(-58.45)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-44.15	(-5.47)	-12.45 k	-42.72	(-4.40)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.24	(-22.24)	-13.15 k	-41.99	(-21.99)	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	-	(-)	-	-	(-)	-
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TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Ref Offset 28 dB Ref 37.0 dBm</p> <p>Center 470 MHz Span 120 kHz</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>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>30.96</td> <td>(-1.96)</td> <td>-300.0</td> <td>22.17</td> <td>(-10.76)</td> <td>2.200 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.84</td> <td>(-1.88)</td> <td>-12.40 k</td> <td>-41.40</td> <td>(-3.26)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.33</td> <td>(-18.33)</td> <td>-16.60 k</td> <td>-38.93</td> <td>(-18.93)</td> <td>16.05 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	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	30.96	(-1.96)	-300.0	22.17	(-10.76)	2.200 k	5.625 kHz	12.50 kHz	100.0 Hz	-39.84	(-1.88)	-12.40 k	-41.40	(-3.26)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.33	(-18.33)	-16.60 k	-38.93	(-18.93)	16.05 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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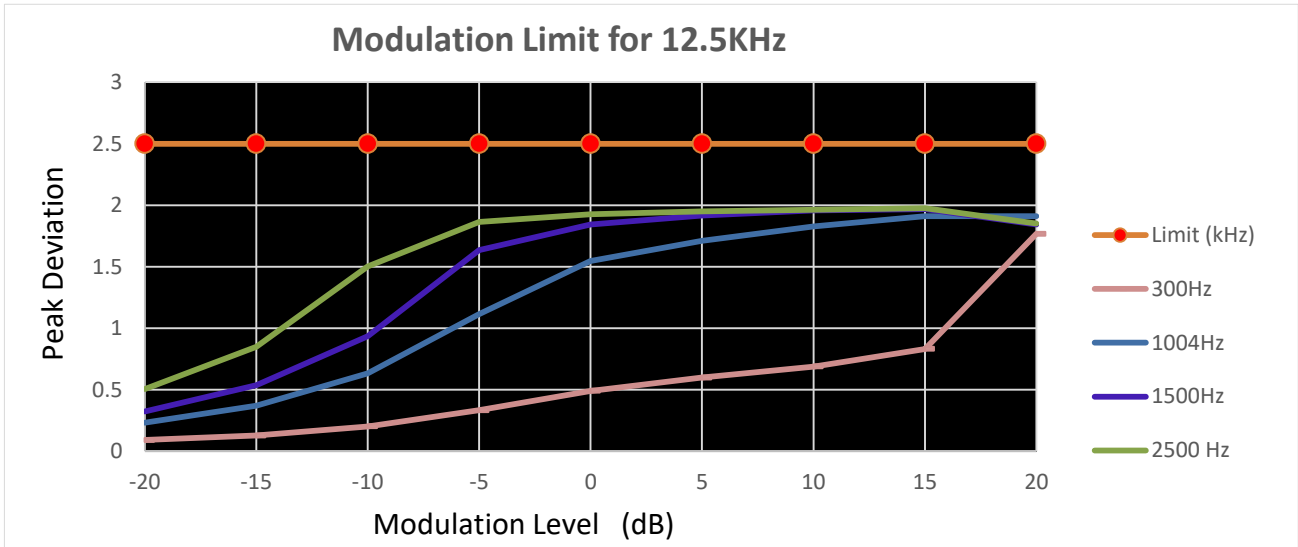
Appendix D:Modulation Limit

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 _{M2}	-20	0.091	0.232	0.323	0.505	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.128	0.369	0.536	0.849	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.202	0.633	0.934	1.502	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.333	1.115	1.634	1.863	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.49	1.547	1.844	1.925	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.599	1.71	1.916	1.95	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.688	1.827	1.957	1.964	2.5	PASS
TX-ANH	FM	CH _{M2}	15	0.832	1.91	1.967	1.975	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.767	1.911	1.844	1.851	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



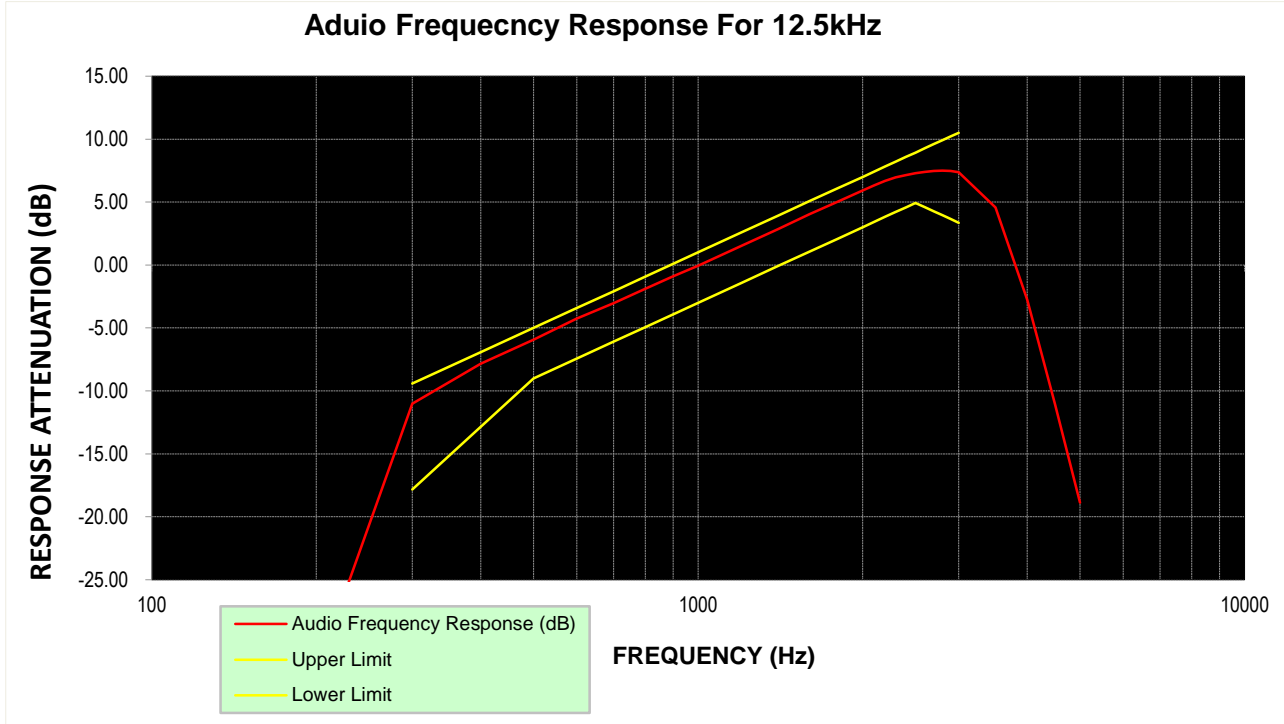
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-32.41			PASS
TX-ANH	FM	CH _{M2}	200	-32.43			PASS
TX-ANH	FM	CH _{M2}	300	-11.02	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-7.83	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-5.93	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.25	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.04	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.89	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.90	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.06	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.53	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.85	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.03	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.02	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.92	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.32	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.69	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.96	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	7.14	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	7.29	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	7.40	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.47	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.50	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.48	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.38	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	4.58			PASS
TX-ANH	FM	CH _{M2}	4000	-2.77			PASS
TX-ANH	FM	CH _{M2}	4500	-11.07			PASS
TX-ANH	FM	CH _{M2}	5000	-18.88			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

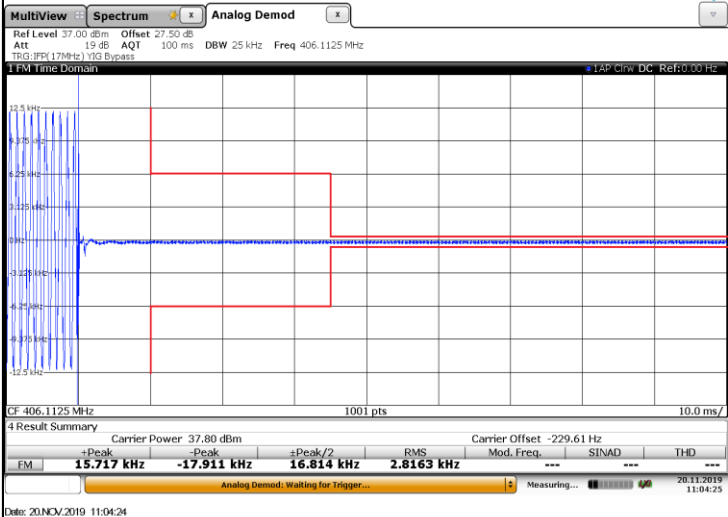
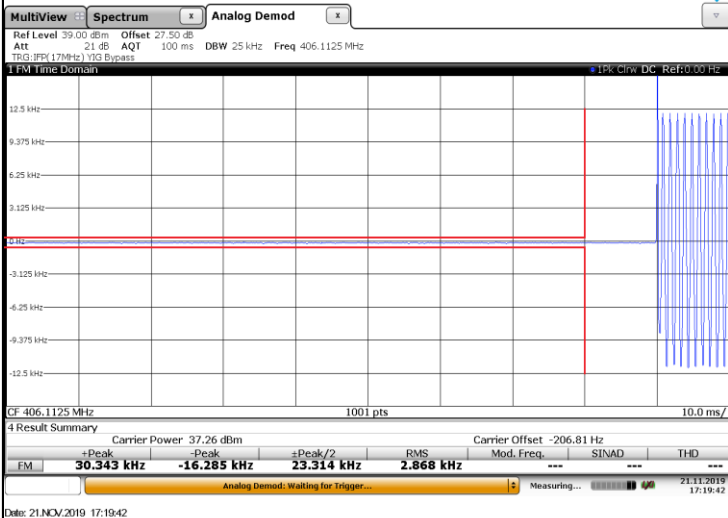
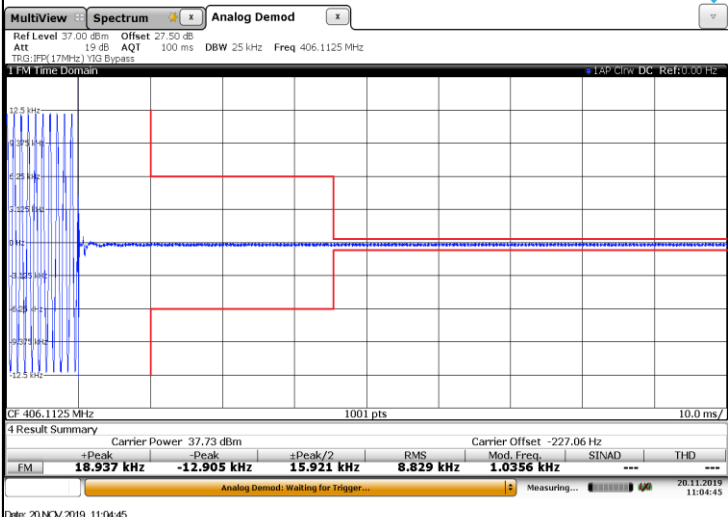
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-0.022	-0.036	-0.029	-0.045	-0.061	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.034	-0.045	-0.039	-0.055	-0.069	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.043	-0.057	-0.053	-0.064	-0.083	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.056	-0.069	-0.064	-0.073	-0.095	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.042	-0.057	-0.055	-0.064	-0.082	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.032	-0.049	-0.045	-0.055	-0.073	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.023	-0.041	-0.034	-0.046	-0.066	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.014	-0.030	-0.023	-0.039	-0.055	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.001	-0.018	-0.011	-0.026	-0.045	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.030	-0.025	-0.039	-0.047	-0.060	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.041	-0.037	-0.049	-0.055	-0.068	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.053	-0.051	-0.064	-0.065	-0.078	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.061	-0.062	-0.077	-0.074	-0.086	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.052	-0.049	-0.067	-0.063	-0.076	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.041	-0.039	-0.054	-0.051	-0.067	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.027	-0.027	-0.045	-0.040	-0.056	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.016	-0.013	-0.032	-0.030	-0.048	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.005	-0.003	-0.020	-0.022	-0.039	±5.0	PASS
TX-ANH	FM	V _N	-30	-0.336	-0.386	-0.384	-0.374	-0.433	±5.0	PASS
TX-ANH	FM	V _N	-20	-0.346	-0.401	-0.395	-0.386	-0.446	±5.0	PASS
TX-ANH	FM	V _N	-10	-0.361	-0.413	-0.406	-0.400	-0.457	±5.0	PASS
TX-ANH	FM	V _N	0	-0.369	-0.421	-0.420	-0.408	-0.465	±5.0	PASS
TX-ANH	FM	V _N	10	-0.359	-0.411	-0.408	-0.394	-0.456	±5.0	PASS
TX-ANH	FM	V _N	20	-0.346	-0.397	-0.398	-0.386	-0.445	±5.0	PASS
TX-ANH	FM	V _N	30	-0.334	-0.386	-0.388	-0.372	-0.435	±5.0	PASS
TX-ANH	FM	V _N	40	-0.323	-0.379	-0.381	-0.364	-0.424	±5.0	PASS
TX-ANH	FM	V _N	55	-0.309	-0.371	-0.374	-0.355	-0.410	±5.0	PASS
TX-ANL	FM	V _N	-30	-0.340	-0.390	-0.359	-0.356	-0.415	±5.0	PASS
TX-ANL	FM	V _N	-20	-0.351	-0.404	-0.370	-0.367	-0.428	±5.0	PASS
TX-ANL	FM	V _N	-10	-0.362	-0.419	-0.385	-0.377	-0.436	±5.0	PASS
TX-ANL	FM	V _N	0	-0.377	-0.433	-0.394	-0.389	-0.447	±5.0	PASS
TX-ANL	FM	V _N	10	-0.369	-0.419	-0.387	-0.377	-0.435	±5.0	PASS
TX-ANL	FM	V _N	20	-0.359	-0.408	-0.379	-0.365	-0.423	±5.0	PASS
TX-ANL	FM	V _N	30	-0.346	-0.401	-0.365	-0.354	-0.415	±5.0	PASS
TX-ANL	FM	V _N	40	-0.339	-0.394	-0.354	-0.346	-0.406	±5.0	PASS
TX-ANL	FM	V _N	55	-0.331	-0.380	-0.346	-0.333	-0.397	±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 _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.055	-0.065	-0.061	-0.067	-0.088	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.056	-0.066	-0.062	-0.067	-0.090	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.058	-0.066	-0.062	-0.068	-0.090	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.061	-0.058	-0.075	-0.074	-0.081	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.062	-0.059	-0.076	-0.075	-0.081	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.061	-0.059	-0.078	-0.076	-0.085	±5.0	PASS
TX-ANH	FM	V _N	T _N	-0.368	-0.414	-0.404	-0.381	-0.436	±5.0	PASS
TX-ANH	FM	V _L	T _N	-0.375	-0.415	-0.412	-0.386	-0.440	±5.0	PASS
TX-ANH	FM	V _H	T _N	-0.376	-0.438	-0.427	-0.384	-0.451	±5.0	PASS
TX-ANL	FM	V _N	T _N	-0.362	-0.401	-0.391	-0.366	-0.415	±5.0	PASS
TX-ANL	FM	V _L	T _N	-0.369	-0.406	-0.398	-0.368	-0.422	±5.0	PASS
TX-ANL	FM	V _H	T _N	-0.382	-0.413	-0.410	-0.381	-0.427	±5.0	PASS

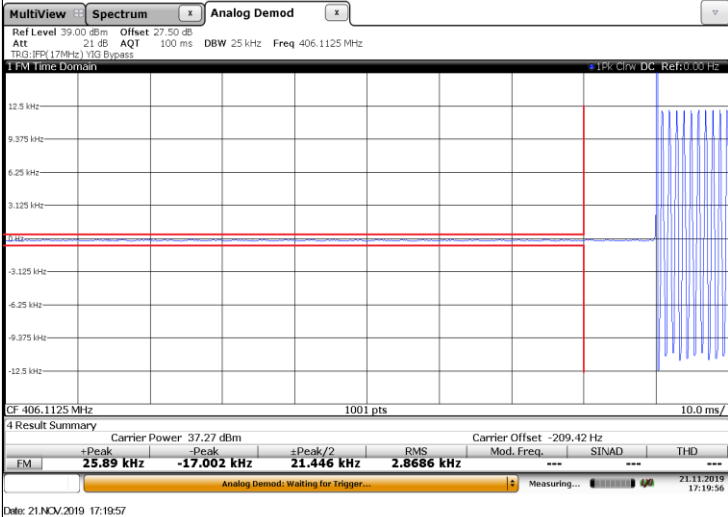


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																								
TX-DNH	4FSK	CH _{M2}	 <table border="1" data-bbox="596 801 1326 869"> <thead> <tr> <th colspan="2">4 Result Summary</th> <th>Carrier Power</th> <th>Carrier Offset</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>+Peak 15.717 kHz</td> <td>37.80 dBm</td> <td>-229.61 Hz</td> </tr> <tr> <td></td> <td>-Peak -17.911 kHz</td> <td></td> <td></td> </tr> <tr> <td></td> <td>+Peak/2 16.814 kHz</td> <td></td> <td></td> </tr> <tr> <td></td> <td>RMS 2.8163 kHz</td> <td></td> <td></td> </tr> </tbody> </table>	4 Result Summary		Carrier Power	Carrier Offset	FM	+Peak 15.717 kHz	37.80 dBm	-229.61 Hz		-Peak -17.911 kHz				+Peak/2 16.814 kHz				RMS 2.8163 kHz						
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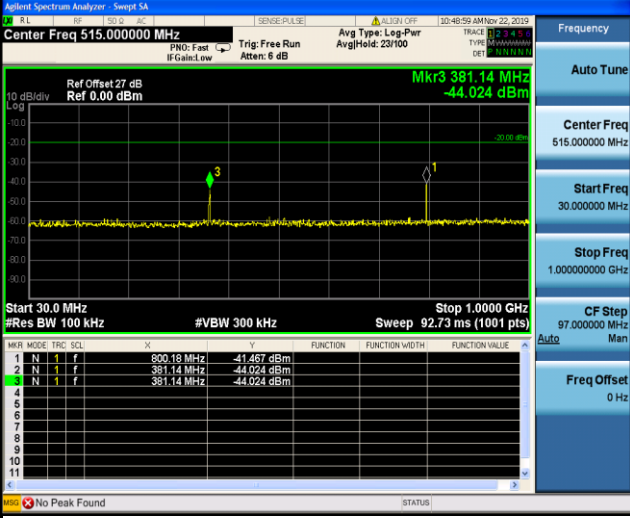
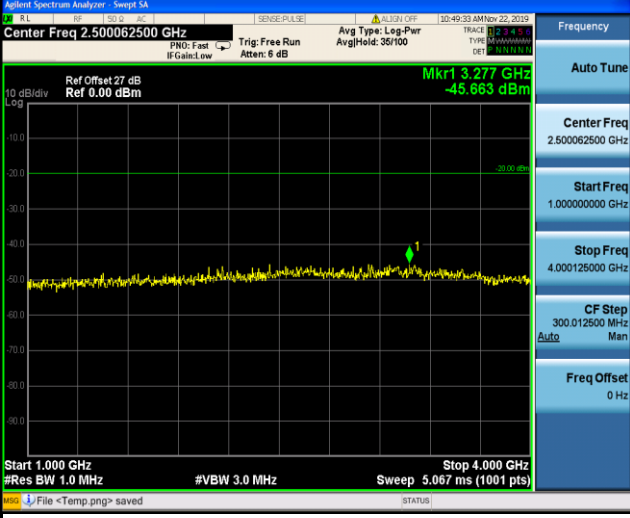
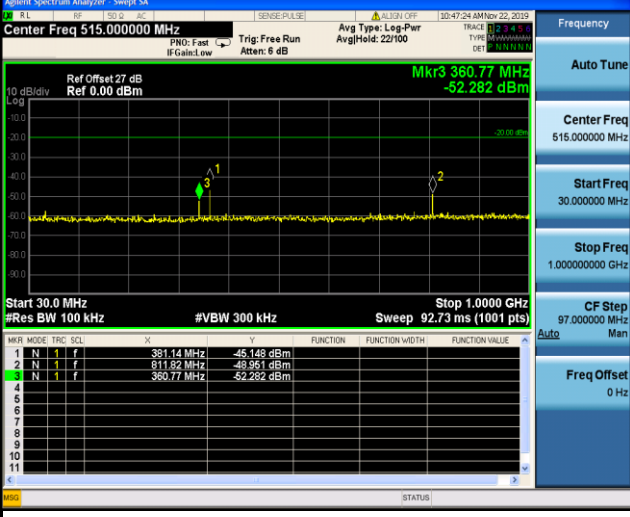


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																											
TX-ANH	FM	CH _{M2}	 <p>MultiView Spectrum Analog Demod</p> <p>Ref Level 39.00 dBm Offset 27.50 dB Att 21 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: FFS (17MHz) 100 Bytes</p> <p>1 FM Time Domain Lpk Clrw DC Ref:0.00 Hz</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 colspan="2">±Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> <tr> <th></th> <th>dBm</th> <th>Hz</th> <th>kHz</th> <th>kHz</th> <th>kHz</th> <th>---</th> <th>---</th> <th>---</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>37.27</td> <td>-209.42</td> <td>25.89</td> <td>-17.002</td> <td>21.446</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Analog Demod: Waiting for Trigger... Measuring... 21.11.2019 17:19:56</p> <p>Date: 21.NOV.2019 17:19:57</p>		Carrier Power	Carrier Offset	±Peak/2		RMS	Mod. Freq.	SINAD	THD		dBm	Hz	kHz	kHz	kHz	---	---	---	FM	37.27	-209.42	25.89	-17.002	21.446	---	---	---
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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 style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CHL	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH _{M1}	 <p style="text-align: center;">30MHz~1GHz</p>

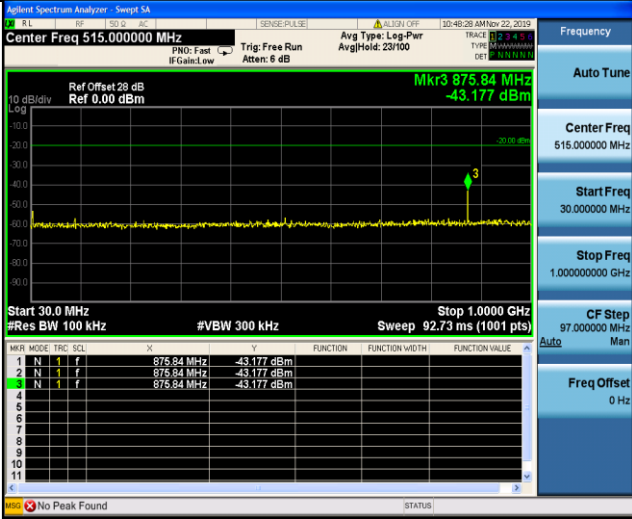
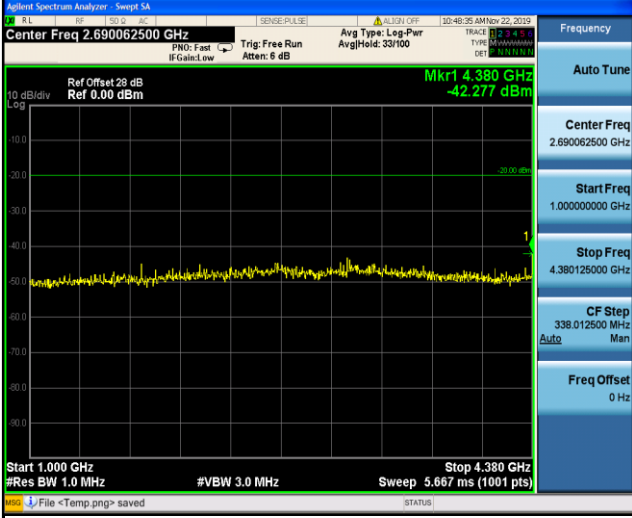
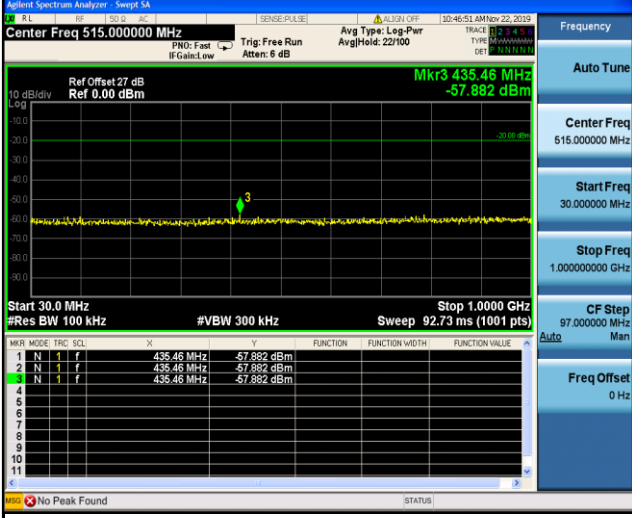


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.304 GHz -45.467 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 _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -48.878 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>TRIG</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>811.82 MHz</td> <td>-48.878 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-48.878 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-48.878 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>No Peak Found</p> <p>30MHz~1GHz</p>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	811.82 MHz	-48.878 dBm				2	N	1	f	811.82 MHz	-48.878 dBm				3	N	1	f	811.82 MHz	-48.878 dBm			
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TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.659 GHz -44.932 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>																																				

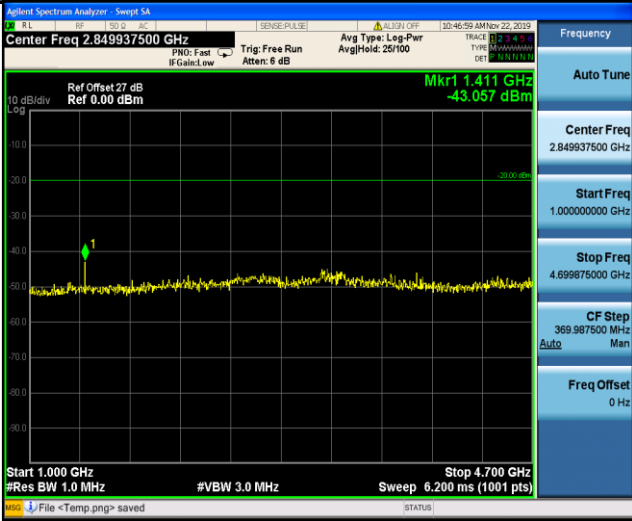
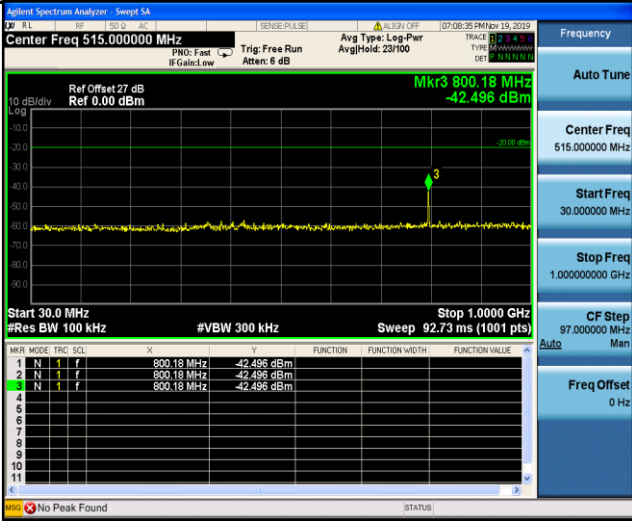
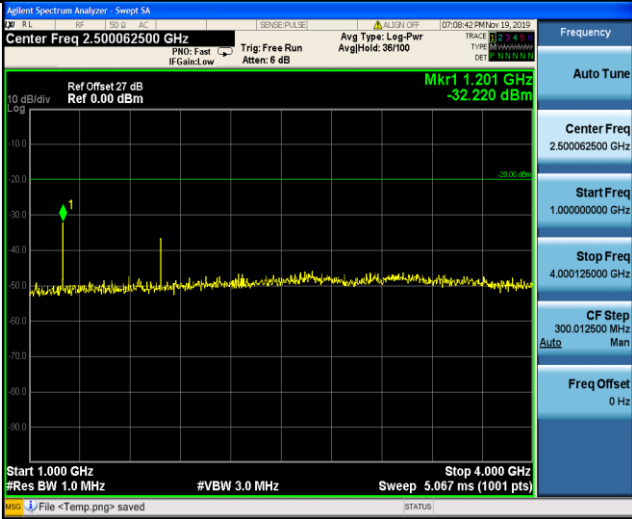


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CH _{M3}	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH _H	 <p style="text-align: center;">30MHz~1GHz</p>

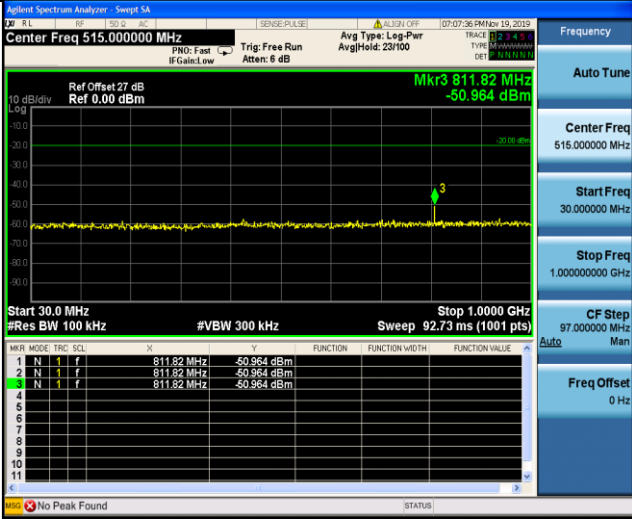
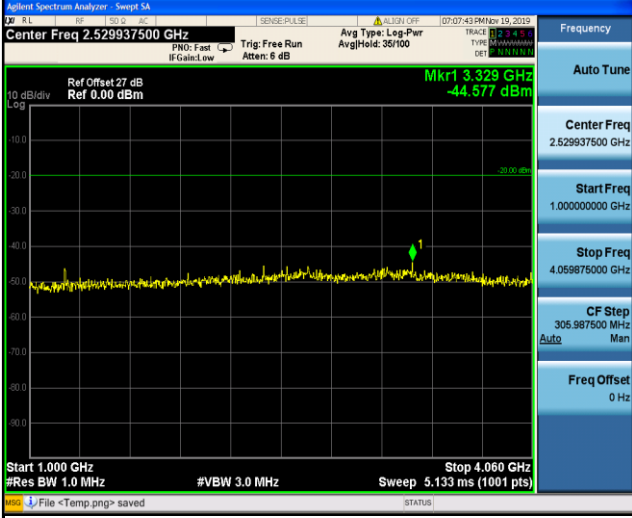
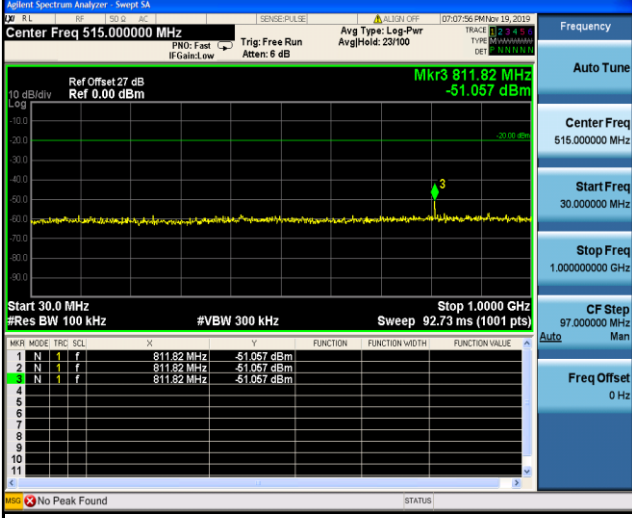


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-ANH	FM	CH _L	 <p style="text-align: center;">30MHz~1GHz</p>
TX-ANH	FM	CH _L	 <p style="text-align: center;">1GHz~10th Harmonic</p>



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CH _{M1}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -50.964 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>811.82 MHz</td> <td>-50.964 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-50.964 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-50.964 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	811.82 MHz	-50.964 dBm				2	N	1	f	811.82 MHz	-50.964 dBm				3	N	1	f	811.82 MHz	-50.964 dBm			
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TX-ANH	FM	CH _{M1}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.329 GHz -44.577 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.060 GHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-ANH	FM	CH _{M2}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -51.057 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>811.82 MHz</td> <td>-51.057 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-51.057 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-51.057 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	811.82 MHz	-51.057 dBm				2	N	1	f	811.82 MHz	-51.057 dBm				3	N	1	f	811.82 MHz	-51.057 dBm			
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 1.765 GHz -23.993 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-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 42.61 MHz -55.303 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>TRIG</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>875.84 MHz</td> <td>-50.105 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>438.37 MHz</td> <td>-51.938 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>42.61 MHz</td> <td>-55.303 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	875.84 MHz	-50.105 dBm				2	N	1	f	438.37 MHz	-51.938 dBm				3	N	1	f	42.61 MHz	-55.303 dBm			
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TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 1.314 GHz -44.479 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.667 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				



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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Mkr3 939.86 MHz -56.331 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>TRIG</th> <th>SQL</th> <th>F</th> <th>P</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td>f</td> <td>939.86 MHz</td> <td>-56.331 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td>f</td> <td>939.86 MHz</td> <td>-56.331 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td>f</td> <td>939.86 MHz</td> <td>-56.331 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRIG	SQL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f	f	939.86 MHz	-56.331 dBm				2	N	f	f	939.86 MHz	-56.331 dBm				3	N	f	f	939.86 MHz	-56.331 dBm			
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TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.849937500 GHz Mkr1 1.411 GHz -44.043 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.700 GHz Sweep 6.200 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				

----End of Report----