



Appendix B:Occupied Bandwidth For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10 Radio Device: BTS</p> <p>Ref 31.64 dBm</p> <p>Center: 470 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 34.2 dBm</p> <p>8.003 kHz</p> <p>Transmit Freq Error 52 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.853 kHz x dB -26.00 dB</p>



Appendix C:Emission Mask For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz Center Freq: 136.012500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB</p> <p>Ref Offset 19 dB Ref 32.0 dBm</p> <p>Center 136 MHz Span 120 kHz</p> <p>Total Power Ref 26.00 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>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>25.58</td> <td>(-1.96)</td> <td>0.0</td> <td>26.06</td> <td>(-1.49)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.42</td> <td>(-4.07)</td> <td>-12.15 k</td> <td>-45.76</td> <td>(-3.68)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-48.36</td> <td>(-28.36)</td> <td>-13.90 k</td> <td>-48.55</td> <td>(-28.55)</td> <td>13.40 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	25.58	(-1.96)	0.0	26.06	(-1.49)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.42	(-4.07)	-12.15 k	-45.76	(-3.68)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-48.36	(-28.36)	-13.90 k	-48.55	(-28.55)	13.40 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-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None PASS Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Gain: Low #Atten: 40 dB</p> <p>Ref Offset 19 dB Ref 32.0 dBm</p> <p>Center 174 MHz Span 120 kHz</p> <p>Total Power Ref 29.77 dBm @ 0.125 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>Peak</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>16.10</td> <td>(-11.55)</td> <td>-500.0</td> <td>17.55</td> <td>(-10.09)</td> <td>1.100 k</td> <td>1.100 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-46.56</td> <td>(-3.86)</td> <td>-12.35 k</td> <td>-45.52</td> <td>(-2.46)</td> <td>12.40 k</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-47.01</td> <td>(-27.01)</td> <td>-12.60 k</td> <td>-45.70</td> <td>(-25.70)</td> <td>14.10 k</td> <td>14.10 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> <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)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	16.10	(-11.55)	-500.0	17.55	(-10.09)	1.100 k	1.100 k	5.625 kHz	12.50 kHz	100.0 Hz	-46.56	(-3.86)	-12.35 k	-45.52	(-2.46)	12.40 k	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.01	(-27.01)	-12.60 k	-45.70	(-25.70)	14.10 k	14.10 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 For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz</p> <p>Ref Offset 19 dB, Ref 20.0 dBm</p> <p>Total Power Ref 13.92 dBm @ 0.125 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>13.53</td> <td>(-2.07)</td> <td>0.0</td> <td>13.98</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-55.85</td> <td>(-8.37)</td> <td>-11.35 k</td> <td>-62.19</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-60.16</td> <td>(-40.16)</td> <td>-13.90 k</td> <td>-60.12</td> <td>14.00 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	13.53	(-2.07)	0.0	13.98	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-55.85	(-8.37)	-11.35 k	-62.19	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-60.16	(-40.16)	-13.90 k	-60.12	14.00 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	-
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Appendix C:Emission Mask For VHF Band

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TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset 19 dB Ref 19.0 dBm</p> <p>Center 174 MHz Span 120 kHz</p> <p>Total Power Ref 17.43 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>4.377</td> <td>(-11.08)</td> <td>-450.0</td> <td>5.682</td> <td>(-9.77) 400.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-56.62</td> <td>(-4.64)</td> <td>-11.95 k</td> <td>-60.47</td> <td>(-4.48) 12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-59.09</td> <td>(-39.09)</td> <td>-13.60 k</td> <td>-58.33</td> <td>(-38.33) 15.45 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> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	4.377	(-11.08)	-450.0	5.682	(-9.77) 400.0	5.625 kHz	12.50 kHz	100.0 Hz	-56.62	(-4.64)	-11.95 k	-60.47	(-4.48) 12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-59.09	(-39.09)	-13.60 k	-58.33	(-38.33) 15.45 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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{L1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 37.0 dBm</p> <p>Center 400 MHz Span 120 kHz</p> <p>Total Power Ref 31.37 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>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>31.19</td> <td>(-1.62)</td> <td>0.0</td> <td>31.19</td> <td>(-1.62)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.65</td> <td>(-3.47)</td> <td>-12.30 k</td> <td>-42.37</td> <td>(-4.83)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.13</td> <td>(-23.13)</td> <td>-15.95 k</td> <td>-42.16</td> <td>(-22.16)</td> <td>19.10 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)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.19	(-1.62)	0.0	31.19	(-1.62)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.65	(-3.47)	-12.30 k	-42.37	(-4.83)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.13	(-23.13)	-15.95 k	-42.16	(-22.16)	19.10 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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TX-DNH	4FSK	CH _{L1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 37.0 dBm</p> <p>Center 400 MHz Span 120 kHz</p> <p>Total Power Ref 34.33 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>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>24.22</td> <td>(-8.59)</td> <td>-200.0</td> <td>23.03</td> <td>(-9.77)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.43</td> <td>(2.62)</td> <td>-12.25 k</td> <td>-39.52</td> <td>(-3.08)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.47</td> <td>(-20.47)</td> <td>-14.85 k</td> <td>-39.44</td> <td>(-19.44)</td> <td>13.85 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	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	24.22	(-8.59)	-200.0	23.03	(-9.77)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.43	(2.62)	-12.25 k	-39.52	(-3.08)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.47	(-20.47)	-14.85 k	-39.44	(-19.44)	13.85 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 27 dB Ref: 24.0 dBm</p> <p>Center 406 MHz Span 120 kHz</p> <p>Total Power Ref 18.66 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>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>18.61</td> <td>(-1.84)</td> <td>-250.0</td> <td>-24.57</td> <td>(-45.02)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-53.83</td> <td>(-5.75)</td> <td>-12.10 k</td> <td>-57.31</td> <td>(-7.77)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-52.62</td> <td>(-32.62)</td> <td>-12.80 k</td> <td>-54.16</td> <td>(-34.16)</td> <td>21.80 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	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	18.61	(-1.84)	-250.0	-24.57	(-45.02)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-53.83	(-5.75)	-12.10 k	-57.31	(-7.77)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-52.62	(-32.62)	-12.80 k	-54.16	(-34.16)	21.80 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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Appendix C:Emission Mask For UHF Band

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TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset: 27 dB Ref: 24.0 dBm</p> <p>Center 406 MHz Span 120 kHz</p> <p>Total Power Ref: 21.42 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>8.226</td> <td>(-12.22)</td> <td>-800.0</td> <td>9.550</td> <td>(-10.89) 1.500 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-54.40</td> <td>(-5.59)</td> <td>-12.20 k</td> <td>-51.99</td> <td>(-0.99) 12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-51.70</td> <td>(-31.70)</td> <td>-15.15 k</td> <td>-52.42</td> <td>(-32.42) 15.15 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	8.226	(-12.22)	-800.0	9.550	(-10.89) 1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-54.40	(-5.59)	-12.20 k	-51.99	(-0.99) 12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-51.70	(-31.70)	-15.15 k	-52.42	(-32.42) 15.15 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)
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TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset: 27 dB Ref: 24.0 dBm</p> <p>Center 406.1 MHz Span 120 kHz</p> <p>Total Power Ref: 19.17 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>18.63</td> <td>(-1.67)</td> <td>-250.0</td> <td>-20.06</td> <td>(-40.55) 100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-53.07</td> <td>(2.14)</td> <td>-12.50 k</td> <td>-53.44</td> <td>(6.50) 11.95 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-54.26</td> <td>(-34.26)</td> <td>-16.95 k</td> <td>-53.38</td> <td>(-33.38) 15.10 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> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.63	(-1.67)	-250.0	-20.06	(-40.55) 100.0	5.625 kHz	12.50 kHz	100.0 Hz	-53.07	(2.14)	-12.50 k	-53.44	(6.50) 11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-54.26	(-34.26)	-16.95 k	-53.38	(-33.38) 15.10 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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TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset: 27 dB Ref: 24.0 dBm</p> <p>Center 406.1 MHz Span 120 kHz</p> <p>Total Power Ref: 21.45 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>8.093</td> <td>(-12.40)</td> <td>-200.0</td> <td>7.958</td> <td>(-12.54) 1.000 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-54.26</td> <td>(-4.42)</td> <td>-12.35 k</td> <td>-52.04</td> <td>(-2.19) 12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-52.63</td> <td>(-32.63)</td> <td>-12.90 k</td> <td>-51.56</td> <td>(-31.56) 14.05 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	8.093	(-12.40)	-200.0	7.958	(-12.54) 1.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-54.26	(-4.42)	-12.35 k	-52.04	(-2.19) 12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-52.63	(-32.63)	-12.90 k	-51.56	(-31.56) 14.05 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 C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-DNH	4FSK	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>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 38 dB Ref: 34.0 dBm</p> <p>Center 438 MHz Span 120 kHz</p> <p>Total Power Ref 29.27 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>Peak</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>28.71</td> <td>(-1.10)</td> <td>0.0</td> <td>28.80</td> <td>(-1.01)</td> <td>50.00</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.26</td> <td>(-5.45)</td> <td>-12.25 k</td> <td>-47.96</td> <td>(-7.79)</td> <td>12.30 k</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.96</td> <td>(-22.96)</td> <td>-14.45 k</td> <td>-42.56</td> <td>(-22.56)</td> <td>14.45 k</td> <td>14.45 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> </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)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.71	(-1.10)	0.0	28.80	(-1.01)	50.00	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.26	(-5.45)	-12.25 k	-47.96	(-7.79)	12.30 k	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.96	(-22.96)	-14.45 k	-42.56	(-22.56)	14.45 k	14.45 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 For UHF Band

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TX-DNH	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>Ref Offset: 27 dB Ref: 25.0 dBm</p> <p>Center 470 MHz Span 120 kHz</p> <p>Total Power Ref: 23.40 dBm @ 0.125 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>9.287</td> <td>(-11.98)</td> <td>-300.0</td> <td>11.45</td> <td>(-9.81) 1.050 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-50.98</td> <td>(-2.26)</td> <td>-12.30 k</td> <td>-49.91</td> <td>(-0.46) 12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-50.06</td> <td>(-30.06)</td> <td>-20.35 k</td> <td>-50.15</td> <td>(-30.15) 14.30 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	9.287	(-11.98)	-300.0	11.45	(-9.81) 1.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-50.98	(-2.26)	-12.30 k	-49.91	(-0.46) 12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-50.06	(-30.06)	-20.35 k	-50.15	(-30.15) 14.30 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-DNL	4FSK	CH _{L1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>Ref Offset: 37 dB Ref: 36.0 dBm</p> <p>Center 400 MHz Span 120 kHz</p> <p>Total Power Ref: 30.10 dBm @ 0.125 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>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>29.84</td> <td>(-1.81)</td> <td>0.0</td> <td>30.04</td> <td>(-1.81) 50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.58</td> <td>(7.41)</td> <td>-12.00 k</td> <td>-42.51</td> <td>(7.81) 11.80 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.88</td> <td>(-21.88)</td> <td>-14.15 k</td> <td>-41.57</td> <td>(-21.57) 13.60 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> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.84	(-1.81)	0.0	30.04	(-1.81) 50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.58	(7.41)	-12.00 k	-42.51	(7.81) 11.80 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.88	(-21.88)	-14.15 k	-41.57	(-21.57) 13.60 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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Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	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>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 35.0 dBm</p> <p>Center 406 MHz Span 120 kHz</p> <p>Total Power Ref 29.59 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>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>29.13</td> <td>(-1.89)</td> <td>0.0</td> <td>29.13</td> <td>(-1.89)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.74</td> <td>(-4.85)</td> <td>-12.40 k</td> <td>-43.71</td> <td>(-4.55)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.58</td> <td>(-22.58)</td> <td>-15.15 k</td> <td>-43.44</td> <td>(-23.44)</td> <td>14.35 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	29.13	(-1.89)	0.0	29.13	(-1.89)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.74	(-4.85)	-12.40 k	-43.71	(-4.55)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.58	(-22.58)	-15.15 k	-43.44	(-23.44)	14.35 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-DNL	4FSK	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: 24.0 dBm</p> <p>Center 438 MHz Span 120 kHz</p> <p>Total Power Ref 19.31 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 (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>19.21</td> <td>(-0.34)</td> <td>-350.0</td> <td>-19.01</td> <td>(-38.56)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-53.24</td> <td>(1.35)</td> <td>-12.50 k</td> <td>-54.11</td> <td>(4.77)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-52.68</td> <td>(-32.68)</td> <td>-14.40 k</td> <td>-53.96</td> <td>(-33.96)</td> <td>13.95 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 (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	19.21	(-0.34)	-350.0	-19.01	(-38.56)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-53.24	(1.35)	-12.50 k	-54.11	(4.77)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-52.68	(-32.68)	-14.40 k	-53.96	(-33.96)	13.95 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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNL	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz</p> <p>Ref Offset 27 dB Ref 18.0 dBm</p> <p>Total Power Ref 11.84 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 (dB)</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>11.87</td> <td>(-2.04)</td> <td>-300.0</td> <td>-28.74</td> <td>(-42.66)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-59.45</td> <td>(-2.30)</td> <td>-12.45 k</td> <td>-57.30</td> <td>(-0.87)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-57.22</td> <td>(-37.22)</td> <td>-18.10 k</td> <td>-56.40</td> <td>(-36.40)</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak (dB)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	11.87	(-2.04)	-300.0	-28.74	(-42.66)	5.625 kHz	12.50 kHz	100.0 Hz	-59.45	(-2.30)	-12.45 k	-57.30	(-0.87)	12.50 kHz	60.00 kHz	100.0 Hz	-57.22	(-37.22)	-18.10 k	-56.40	(-36.40)	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 F:Frequency Stability Test & Temperature For VHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	-30	-0.106	-0.128	-0.130	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.106	-0.094	-0.122	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.094	-0.106	-0.108	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.106	-0.115	-0.099	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.064	-0.077	-0.083	±5.0	PASS
TX-DNH	4FSK	V _N	20	<u>-0.063</u>	-0.073	-0.080	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.076	-0.102	-0.120	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.092	-0.128	-0.113	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.101	-0.096	-0.127	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.097	-0.160	-0.135	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.095	-0.117	-0.142	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.108	-0.121	-0.136	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.077	-0.092	-0.109	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.073	-0.081	-0.096	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.069	-0.081	-0.092	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.073	-0.083	-0.098	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.096	-0.126	-0.153	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.115	-0.122	-0.157	±5.0	PASS

**Appendix F:Frequency Stability Test & Temperature For UHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _{L1}	CH _{M1}	CH _{M2}	CH _{M3}	CH _{H1}		
TX-DNH	4FSK	V _N	-30	-0.067	-0.079	-0.071	-0.036	-0.060	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.067	-0.067	-0.059	-0.034	-0.056	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.054	-0.061	-0.056	-0.029	-0.047	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.058	-0.054	-0.050	-0.030	-0.049	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.035	-0.034	-0.032	-0.018	-0.029	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.033	-0.032	-0.030	-0.017	-0.027	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.054	-0.056	-0.059	-0.029	-0.049	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.057	-0.052	-0.048	-0.028	-0.052	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.062	-0.061	-0.055	-0.031	-0.054	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.098	-0.094	-0.083	-0.045	-0.097	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.105	-0.081	-0.081	-0.042	-0.092	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.100	-0.086	-0.084	-0.041	-0.094	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.092	-0.073	-0.087	-0.044	-0.082	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.053	-0.047	-0.048	-0.025	-0.053	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.053	-0.047	-0.044	-0.024	-0.051	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.101	-0.078	-0.084	-0.041	-0.096	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.090	-0.078	-0.070	-0.042	-0.084	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.098	-0.089	-0.083	-0.044	-0.092	±5.0	PASS

**Appendix G:Frequency Stability Test & Voltage For VHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	T _N	<u>-0.063</u>	-0.073	-0.080	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.074	-0.081	-0.091	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.076	-0.077	-0.084	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	<u>-0.069</u>	-0.081	-0.092	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.079	-0.094	-0.106	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.076	-0.090	-0.108	±5.0	PASS

**Appendix G: Frequency Stability Test & Voltage For UHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _{L1}	CH _{M1}	CH _{M2}	CH _{M3}	CH _{H1}		
TX-DNH	4FSK	V _N	T _N	-0.033	-0.032	-0.030	<u>-0.017</u>	-0.027	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.062	-0.050	-0.057	-0.027	-0.048	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.064	-0.051	-0.059	-0.028	-0.049	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.053	-0.047	-0.044	<u>-0.024</u>	-0.051	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.085	-0.071	-0.084	-0.038	-0.093	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.076	-0.063	-0.056	-0.029	-0.070	±5.0	PASS



Appendix H:Transmitter Frequency Behavior For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																						
TX-DNH	4FSK	CH _M	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 38.00 dBm Offset 20.50 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG:JFP(17MHz) VGS Bypass</p> <p>1 FM Time Domain</p> <p>CF 155.0125 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> </tr> </thead> <tbody> <tr> <td></td> <td>27.56 dBm</td> <td>-71.33 Hz</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>21.735 kHz</td> <td>-19.276 kHz</td> <td>20.506 kHz</td> <td>2.7987 kHz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 29.OCT.2018 15:40:52</p> <p style="text-align: center;">OFF~ON</p>		Carrier Power	Carrier Offset		27.56 dBm	-71.33 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	21.735 kHz	-19.276 kHz	20.506 kHz	2.7987 kHz	---	---	---
	Carrier Power	Carrier Offset																							
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FM	21.735 kHz	-19.276 kHz	20.506 kHz	2.7987 kHz	---	---	---																		
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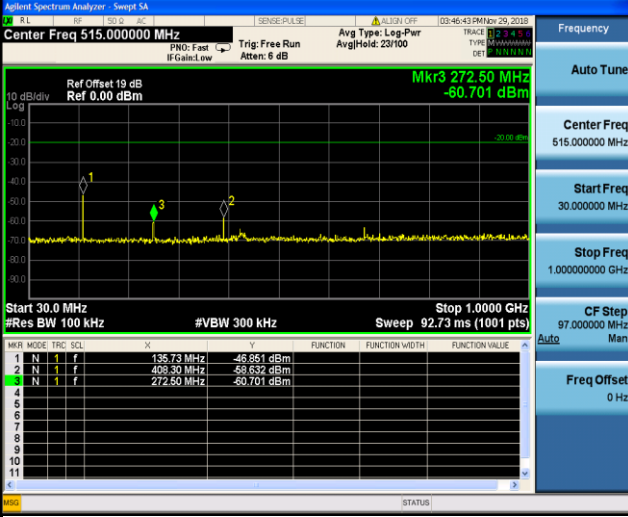
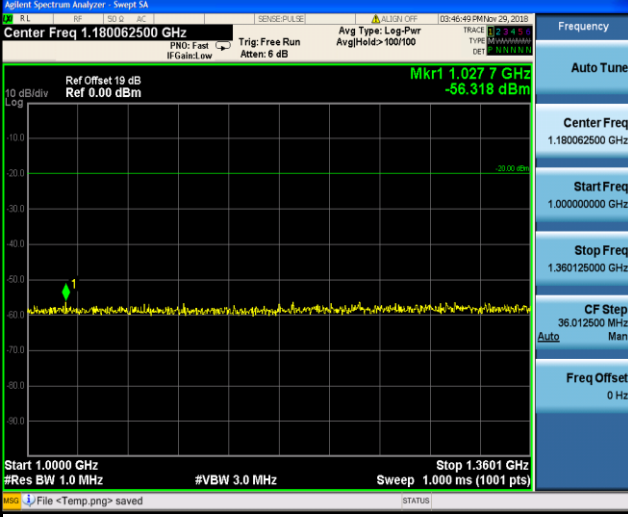
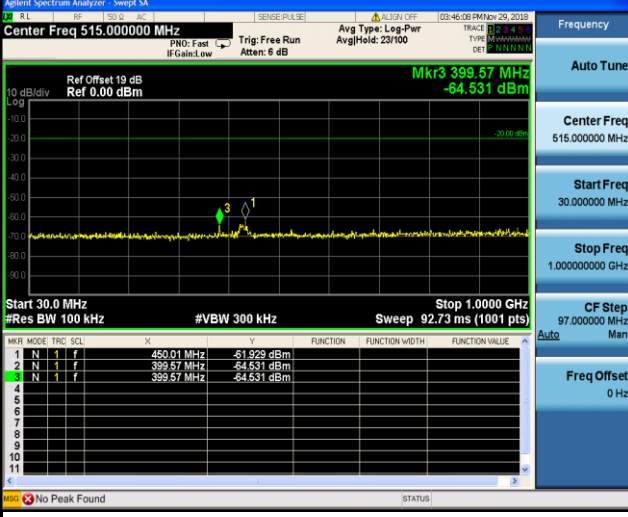


Appendix H:Transmitter Frequency Behavior For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	<p style="text-align: center;">OFF~ON</p>
TX-DNH	4FSK	CH _{M2}	<p style="text-align: center;">ON-OFF</p>

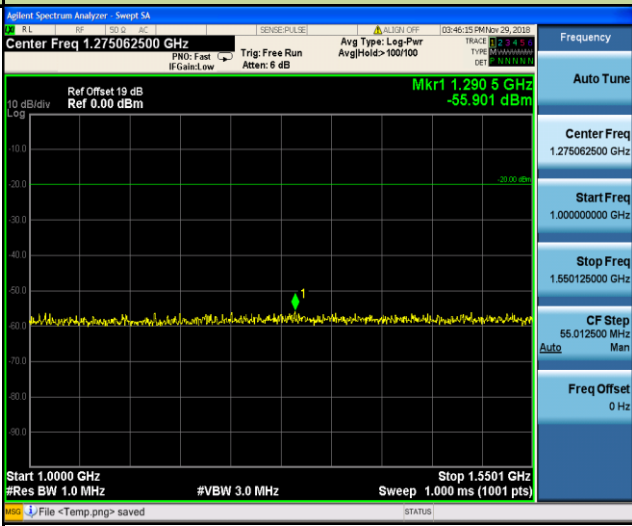
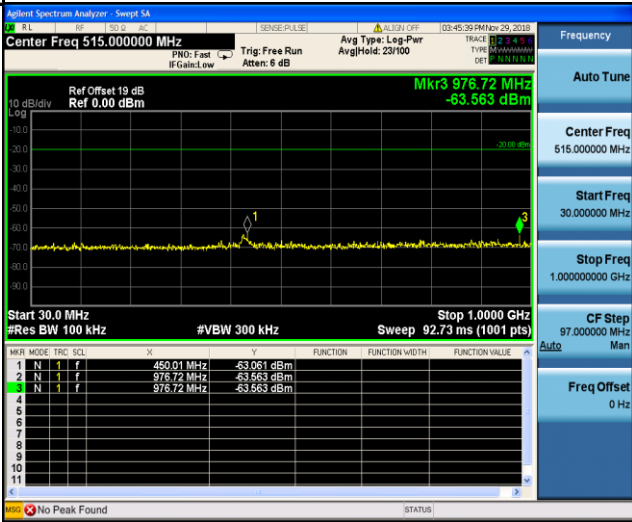
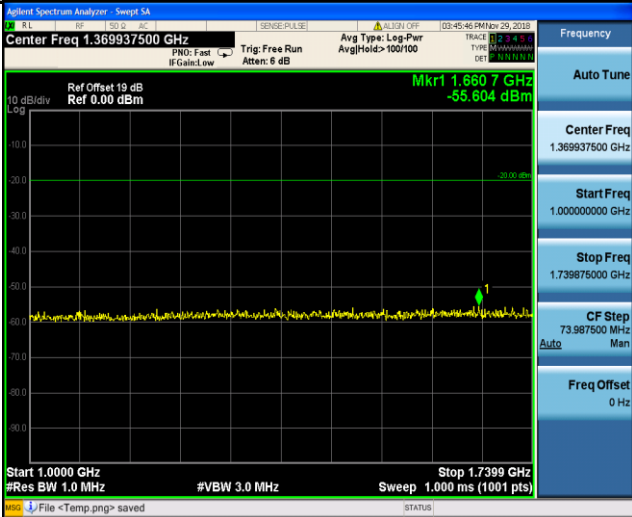


Appendix I:Spurious Emission On Antenna Port For VHF Band

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 _M	 <p style="text-align: center;">30MHz~1GHz</p>



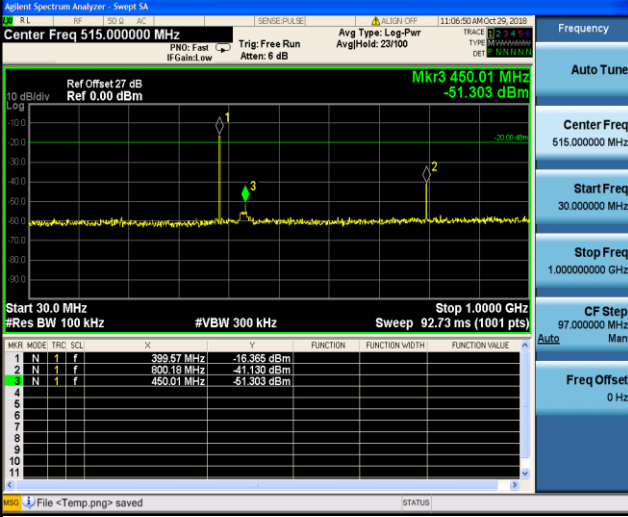
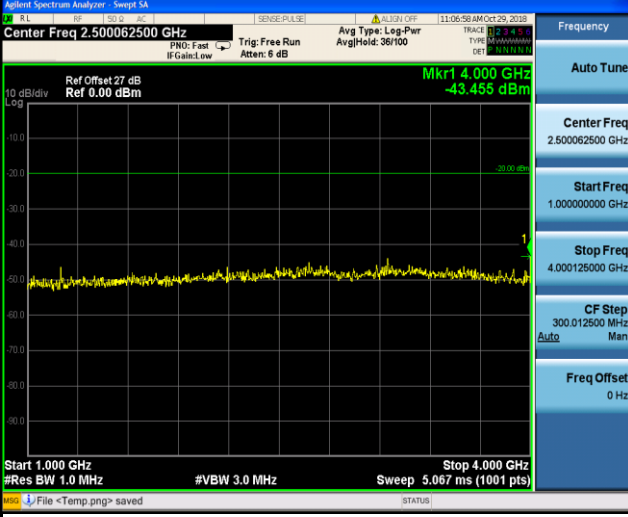

Appendix I:Spurious Emission On Antenna Port For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _M	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.275062500 GHz Ref Offset 19 dB Ref 0.00 dBm Mkr1 1.290 5 GHz -55.901 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.5501 GHz</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 19 dB Ref 0.00 dBm Mkr3 976.72 MHz -63.563 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz</p> <table border="1" data-bbox="596 1243 1133 1400"> <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>450.01 MHz</td> <td>-63.061 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>976.72 MHz</td> <td>-63.563 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>976.72 MHz</td> <td>-63.563 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	450.01 MHz	-63.061 dBm				2	N	1	f	976.72 MHz	-63.563 dBm				3	N	1	f	976.72 MHz	-63.563 dBm			
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3	N	1	f	976.72 MHz	-63.563 dBm																																		
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.369937500 GHz Ref Offset 19 dB Ref 0.00 dBm Mkr1 1.660 7 GHz -55.604 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.7399 GHz</p> <p>1GHz~10th Harmonic</p>																																				

----End of Report----

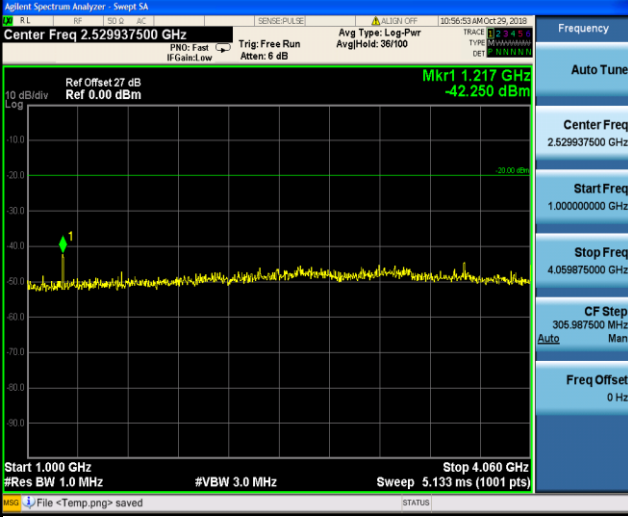
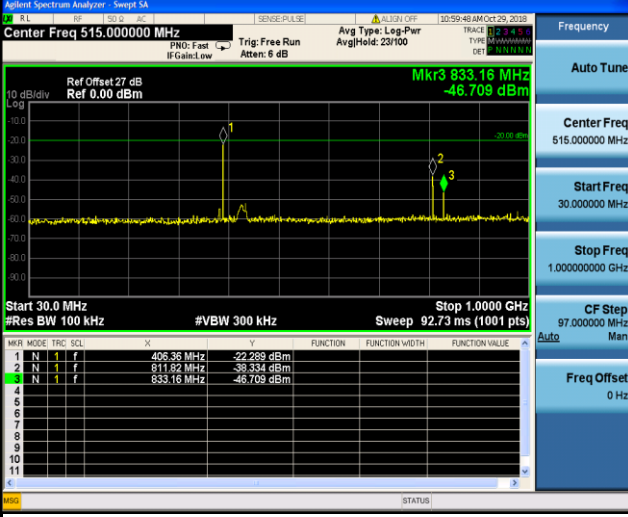
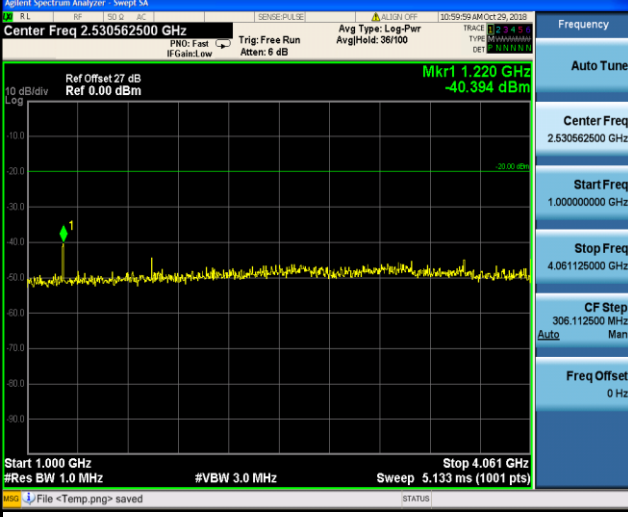


Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{L1}	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CH _{L1}	 <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 For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{M1}	 <p style="text-align: center;">1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH _{M2}	 <table border="1" data-bbox="598 1243 1117 1411"> <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>f</td> <td>f</td> <td>468.38 MHz</td> <td>-22.288 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td>f</td> <td>511.82 MHz</td> <td>-39.534 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td>f</td> <td>833.16 MHz</td> <td>-46.709 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">30MHz~1GHz</p>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f	f	468.38 MHz	-22.288 dBm				2	N	f	f	511.82 MHz	-39.534 dBm				3	N	f	f	833.16 MHz	-46.709 dBm			
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TX-DNH	4FSK	CH _{M2}	 <p style="text-align: center;">1GHz~10th Harmonic</p>																																				

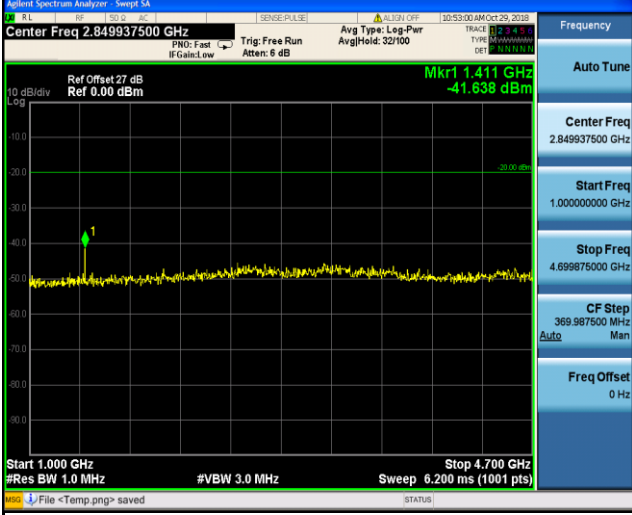


Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 399.57 MHz -51.460 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>TRG</th> <th>SCL</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>1</td> <td>f</td> <td>375.84 MHz</td> <td></td> <td></td> <td></td> <td>-40.711 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>438.37 MHz</td> <td></td> <td></td> <td></td> <td>-47.177 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>399.57 MHz</td> <td></td> <td></td> <td></td> <td>-51.460 dBm</td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	375.84 MHz				-40.711 dBm	2	N	1	f	438.37 MHz				-47.177 dBm	3	N	1	f	399.57 MHz				-51.460 dBm
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3	N	1	f	399.57 MHz				-51.460 dBm																															
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.944 GHz -40.718 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.380 GHz Sweep 5.667 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 440.31 MHz -53.467 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>TRG</th> <th>SCL</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>1</td> <td>f</td> <td>470.38 MHz</td> <td></td> <td></td> <td></td> <td>-38.770 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>399.86 MHz</td> <td></td> <td></td> <td></td> <td>-39.293 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>440.31 MHz</td> <td></td> <td></td> <td></td> <td>-53.467 dBm</td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz				-38.770 dBm	2	N	1	f	399.86 MHz				-39.293 dBm	3	N	1	f	440.31 MHz				-53.467 dBm
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3	N	1	f	440.31 MHz				-53.467 dBm																															



Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{H1}	 <p style="text-align: center;">1GHz~10th Harmonic</p>

----End of Report----