

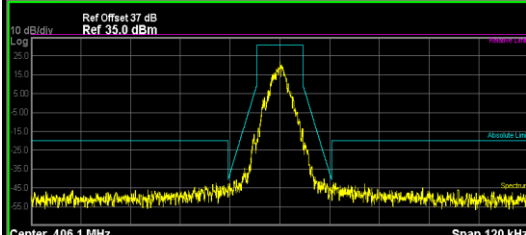
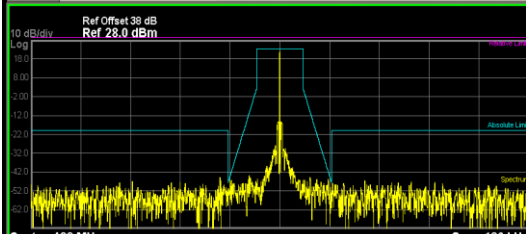
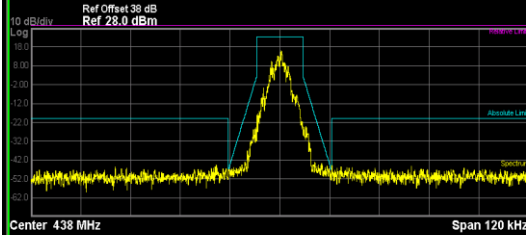


Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Atten: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 Center 406 MHz Span 120 kHz Total Power Ref 29.08 dBm 0.0125 MHz <table><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>28.31</td><td>(-2.41)</td><td>0.0</td><td>29.43</td><td>(-1.29)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.83</td><td>(-0.11)</td><td>-12.50 k</td><td>-43.36</td><td>(-2.63)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.08</td><td>(-23.08)</td><td>-12.60 k</td><td>-42.24</td><td>(-22.24)</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> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	28.31	(-2.41)	0.0	29.43	(-1.29)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.83	(-0.11)	-12.50 k	-43.36	(-2.63)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.08	(-23.08)	-12.60 k	-42.24	(-22.24)	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-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Atten: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 Center 406 MHz Span 120 kHz Total Power Ref 32.64 dBm 0.0125 MHz <table><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>18.25</td><td>(-12.47)</td><td>-200.0</td><td>21.94</td><td>(-8.77)</td><td>900.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.26</td><td>(-2.54)</td><td>-12.50 k</td><td>-43.43</td><td>(-3.43)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.81</td><td>(-21.81)</td><td>-13.25 k</td><td>-40.58</td><td>(-20.58)</td><td>13.00 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><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> File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	18.25	(-12.47)	-200.0	21.94	(-8.77)	900.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.26	(-2.54)	-12.50 k	-43.43	(-3.43)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.81	(-21.81)	-13.25 k	-40.58	(-20.58)	13.00 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Atten: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 0.00 -5.00 -15.0 -25.0 Center 406.1 MHz Span 120 kHz Total Power Ref 28.88 dBm 0.0125 MHz <table><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>28.93</td><td>(-1.73)</td><td>0.0</td><td>28.93</td><td>(-1.73)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.69</td><td>(-8.19)</td><td>-12.05 k</td><td>-46.27</td><td>(-8.41)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.28</td><td>(-23.28)</td><td>-17.00 k</td><td>-43.69</td><td>(-23.69)</td><td>13.55 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> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	28.93	(-1.73)	0.0	28.93	(-1.73)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.69	(-8.19)	-12.05 k	-46.27	(-8.41)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.28	(-23.28)	-17.00 k	-43.69	(-23.69)	13.55 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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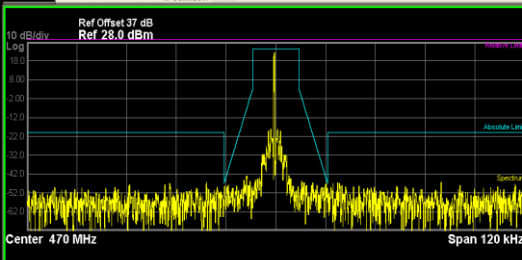
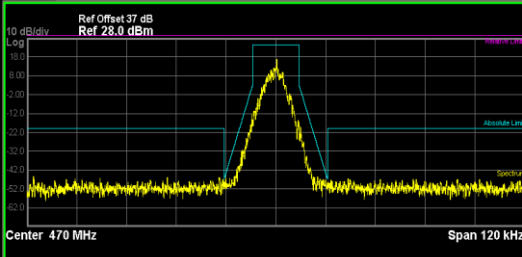


Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 02:35:09 PM Nov 29, 2018 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low IF Atten: 40 dB Ref Offset 37 dB Ref 35.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 32.67 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.73</td><td>(-9.94)</td><td>0.0</td><td>22.15</td><td>(-8.51)</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>-42.93</td><td>(-2.16)</td><td>-12.50 k</td><td>-44.42</td><td>(-3.64)</td><td>12.50 k</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.59</td><td>(-22.59)</td><td>-15.25 k</td><td>-42.12</td><td>(-22.12)</td><td>13.05 k</td><td>13.05 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><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></table> File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	20.73	(-9.94)	0.0	22.15	(-8.51)	50.00	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.93	(-2.16)	-12.50 k	-44.42	(-3.64)	12.50 k	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.59	(-22.59)	-15.25 k	-42.12	(-22.12)	13.05 k	13.05 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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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 02:47:42 PM Nov 29, 2018 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low IF Atten: 40 dB Ref Offset 38 dB Ref 28.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 22.13 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.23</td><td>(-1.36)</td><td>0.0</td><td>22.23</td><td>(-1.36)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.39</td><td>(-2.91)</td><td>-11.90 k</td><td>-45.74</td><td>(-3.35)</td><td>11.75 k</td><td>11.75 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.01</td><td>(-25.01)</td><td>-14.30 k</td><td>-46.71</td><td>(-26.71)</td><td>20.55 k</td><td>20.55 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></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	22.23	(-1.36)	0.0	22.23	(-1.36)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.39	(-2.91)	-11.90 k	-45.74	(-3.35)	11.75 k	11.75 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.01	(-25.01)	-14.30 k	-46.71	(-26.71)	20.55 k	20.55 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}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE PULSE ALIGN OFF 02:48:18 PM Nov 29, 2018 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low IF Atten: 40 dB Ref Offset 38 dB Ref 28.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 25.66 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>13.33</td><td>(-10.26)</td><td>-400.0</td><td>15.92</td><td>(-7.67)</td><td>400.0</td><td>400.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.15</td><td>(-0.76)</td><td>-12.30 k</td><td>-48.81</td><td>(-2.05)</td><td>12.35 k</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.48</td><td>(-24.48)</td><td>-15.25 k</td><td>-44.97</td><td>(-24.97)</td><td>12.65 k</td><td>12.65 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></table> File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	13.33	(-10.26)	-400.0	15.92	(-7.67)	400.0	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.15	(-0.76)	-12.30 k	-48.81	(-2.05)	12.35 k	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.48	(-24.48)	-15.25 k	-44.97	(-24.97)	12.65 k	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)																																																																
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—																																																																



Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-DNL	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 120.0 AC SENSE PULSE ALIGN OFF 05:19:51 PM Nov 29, 2018 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 28.0 dBm 10 dB/div Log  Center 470 MHz Span 120 kHz Total Power Ref 22.25 dBm 0.0125 MHz <table><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>22.33</td><td>(-2.02)</td><td>-350.0</td><td>-18.28</td><td>(-42.64)</td><td>500.0</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.30</td><td>(-2.31)</td><td>-12.35 k</td><td>-47.04</td><td>(-2.50)</td><td>12.15 k</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.31</td><td>(-26.31)</td><td>-16.65 k</td><td>-46.33</td><td>(-26.33)</td><td>39.95 k</td><td>39.95 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><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> File <MASK.D.state> recalled (status) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	22.33	(-2.02)	-350.0	-18.28	(-42.64)	500.0	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.30	(-2.31)	-12.35 k	-47.04	(-2.50)	12.15 k	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.31	(-26.31)	-16.65 k	-46.33	(-26.33)	39.95 k	39.95 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	—	(—)	—	—	(—)	—	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)																																																																
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TX-DNL	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 120.0 AC SENSE PULSE ALIGN OFF 05:20:27 PM Nov 29, 2018 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 37 dB Ref 28.0 dBm 10 dB/div Log  Center 470 MHz Span 120 kHz Total Power Ref 25.04 dBm 0.0125 MHz <table><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>12.08</td><td>(-12.28)</td><td>-450.0</td><td>18.59</td><td>(-7.77)</td><td>350.0</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.94</td><td>(-2.49)</td><td>-12.00 k</td><td>-49.12</td><td>(-2.41)</td><td>12.45 k</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.13</td><td>(-25.13)</td><td>-58.30 k</td><td>-46.74</td><td>(-26.74)</td><td>17.45 k</td><td>17.45 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> File <Temp.png> saved (status) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	12.08	(-12.28)	-450.0	18.59	(-7.77)	350.0	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.94	(-2.49)	-12.00 k	-49.12	(-2.41)	12.45 k	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.13	(-25.13)	-58.30 k	-46.74	(-26.74)	17.45 k	17.45 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	—	(—)	—	—	(—)	—	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)																																																																
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—																																																																

**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	0.062	0.077	0.128	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.053	0.066	0.117	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.041	0.048	0.098	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.030	0.041	0.081	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.017	0.021	0.067	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.013	0.016	0.048	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.021	0.025	0.077	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.043	0.049	0.097	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.044	0.055	0.111	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.050	0.082	0.114	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.040	0.066	0.090	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.035	0.064	0.087	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.026	0.078	0.063	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.019	0.046	0.046	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.008	0.023	0.019	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.017	0.055	0.043	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.028	0.055	0.066	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.041	0.071	0.103	±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	0.139	0.139	0.119	0.138	0.167	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.131	0.132	0.110	0.127	0.155	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.123	0.122	0.106	0.118	0.151	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.103	0.103	0.090	0.106	0.135	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.092	0.087	0.080	0.089	0.110	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.085	0.085	0.075	0.085	0.105	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.107	0.109	0.094	0.102	0.137	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.113	0.111	0.098	0.116	0.141	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.128	0.119	0.107	0.122	0.152	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.141	0.156	<u>0.185</u>	0.140	0.125	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.137	0.141	0.176	0.136	0.115	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.135	0.143	0.175	0.131	0.118	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.113	0.124	0.146	0.111	0.098	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.094	0.105	0.124	0.086	0.081	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.087	0.096	0.115	0.085	0.078	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.094	0.105	0.125	0.089	0.082	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.117	0.130	0.150	0.116	0.108	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.135	0.147	0.176	0.135	0.117	±5.0	PASS

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

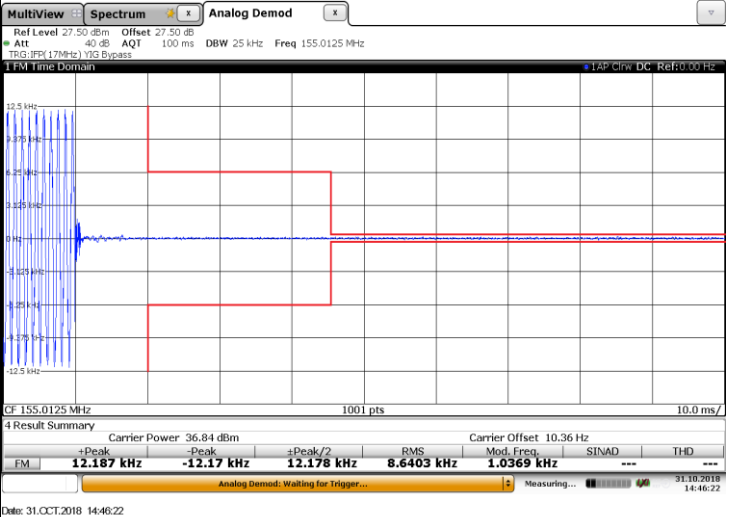
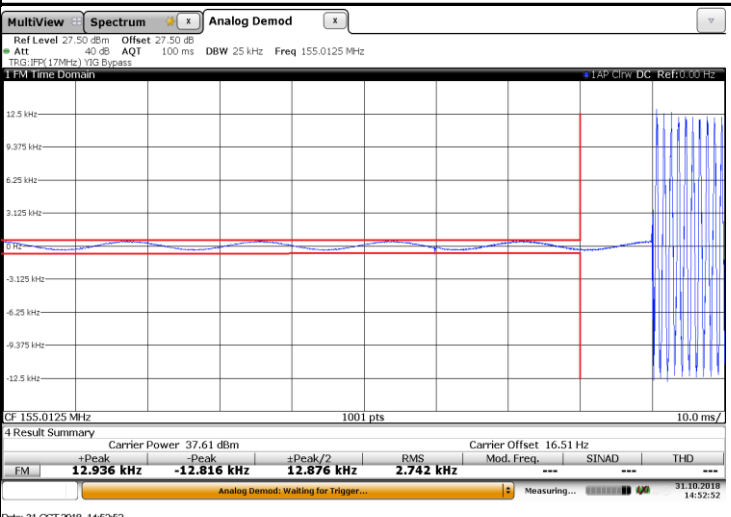
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	T _N	0.013	0.016	0.048	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.026	0.031	0.068	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.021	0.032	<u>0.069</u>	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.008	0.023	0.019	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.015	<u>0.036</u>	0.027	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.010	0.032	0.021	±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	0.085	0.085	0.075	0.085	0.105	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.113	0.117	0.102	0.108	<u>0.143</u>	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.118	0.090	0.078	0.088	0.110	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.087	0.096	0.115	0.085	0.078	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.121	0.126	<u>0.150</u>	0.115	0.112	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.100	0.115	0.139	0.099	0.091	±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	 OFF~ON
TX-DNH	4FSK	CH _M	 ON-OFF

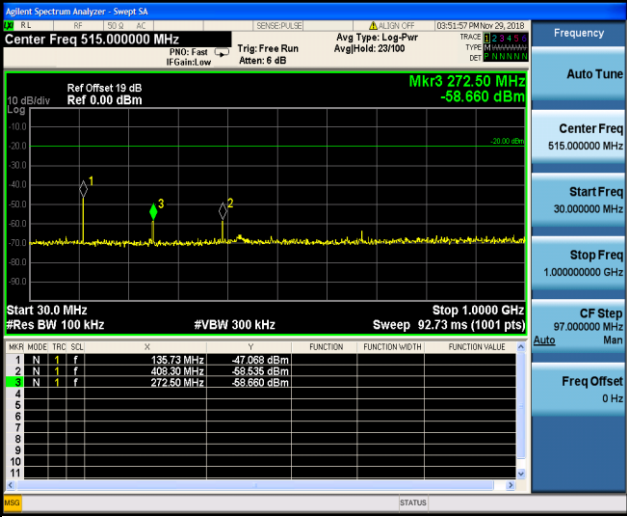
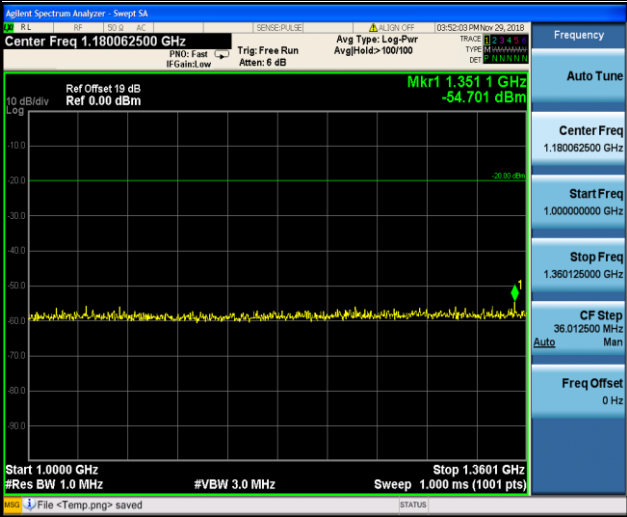
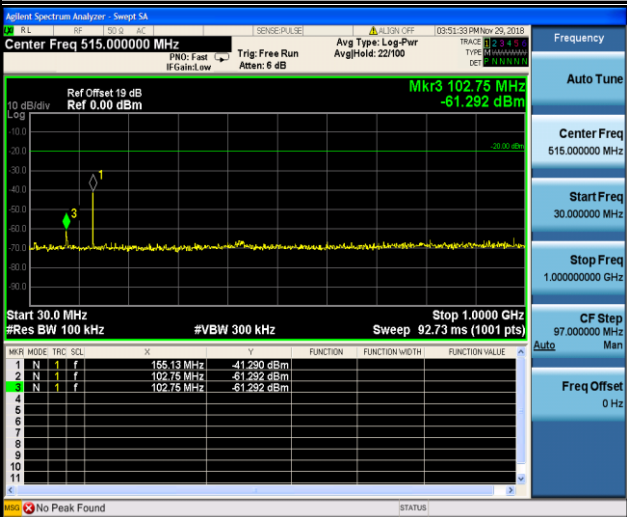


Appendix H:Transmitter Frequency Behavior For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 27.50 dBm Offset 27.50 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPK(17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 32.59 dBm</td><td colspan="2">Carrier Offset 103.26 Hz</td><td colspan="2"></td></tr><tr><td>FM</td><td>+Peak 12.246 kHz</td><td>-Peak -15.677 kHz</td><td>+Peak/2 13.961 kHz</td><td>RMS 2.7628 kHz</td><td>Mod. Freq. --- SINAD --- THD ---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...31.10.2018 14:38:52 Date: 31.OCT.2018 14:38:53 OFF~ON	Carrier Power 32.59 dBm		Carrier Offset 103.26 Hz				FM	+Peak 12.246 kHz	-Peak -15.677 kHz	+Peak/2 13.961 kHz	RMS 2.7628 kHz	Mod. Freq. --- SINAD --- THD ---
Carrier Power 32.59 dBm		Carrier Offset 103.26 Hz													
FM	+Peak 12.246 kHz	-Peak -15.677 kHz	+Peak/2 13.961 kHz	RMS 2.7628 kHz	Mod. Freq. --- SINAD --- THD ---										
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 27.50 dBm Offset 27.50 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPK(17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 32.65 dBm</td><td colspan="2">Carrier Offset -18.89 Hz</td><td colspan="2"></td></tr><tr><td>FM</td><td>+Peak 12.781 kHz</td><td>-Peak -12.824 kHz</td><td>+Peak/2 12.802 kHz</td><td>RMS 8.7227 kHz</td><td>Mod. Freq. 1.0255 kHz SINAD --- THD ---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...31.10.2018 14:49:50 Date: 31.OCT.2018 14:49:49 ON-OFF	Carrier Power 32.65 dBm		Carrier Offset -18.89 Hz				FM	+Peak 12.781 kHz	-Peak -12.824 kHz	+Peak/2 12.802 kHz	RMS 8.7227 kHz	Mod. Freq. 1.0255 kHz SINAD --- THD ---
Carrier Power 32.65 dBm		Carrier Offset -18.89 Hz													
FM	+Peak 12.781 kHz	-Peak -12.824 kHz	+Peak/2 12.802 kHz	RMS 8.7227 kHz	Mod. Freq. 1.0255 kHz SINAD --- THD ---										

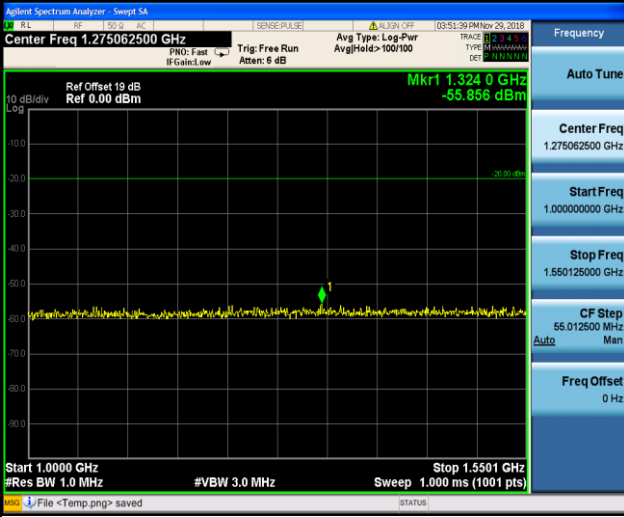
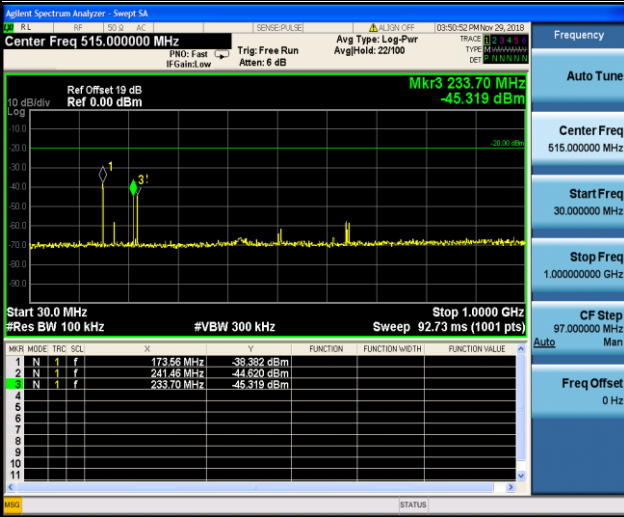
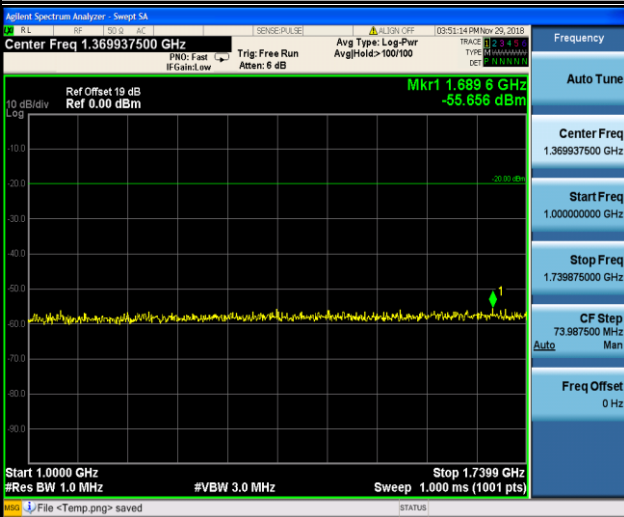


Appendix I:Spurious Emission On Antenna Port For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 30MHz~1GHz
TX-DNH	4FSK	CH _L	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _M	 30MHz~1GHz



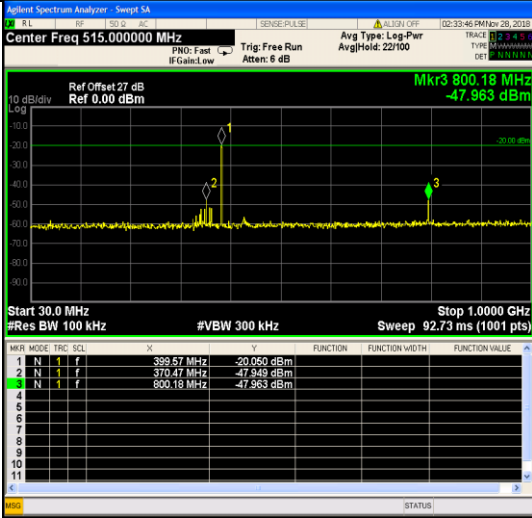
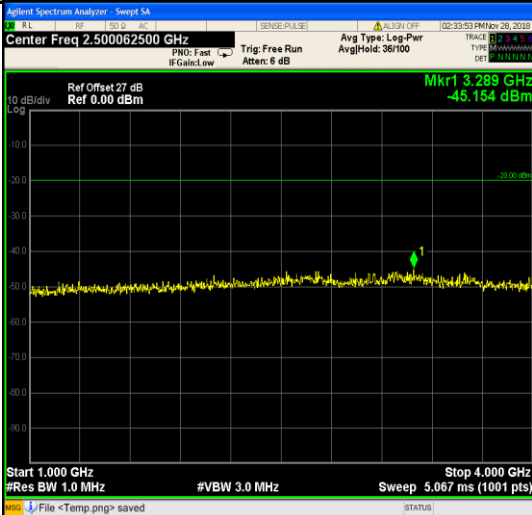
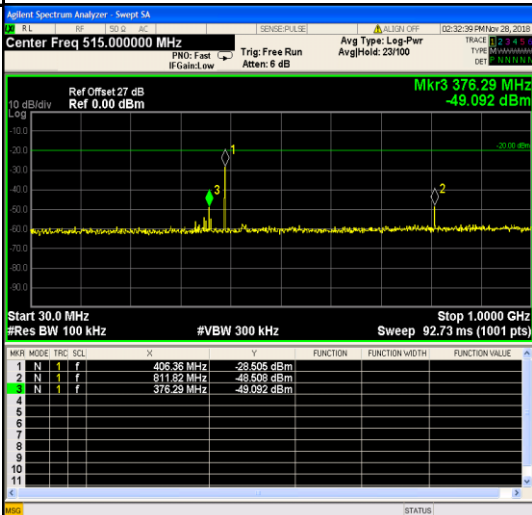
Appendix I:Spurious Emission On Antenna Port For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	 Agilent Spectrum Analyzer - Sweep SA Center Freq 1.275062500 GHz Ref Offset 19 dB Ref 0.00 dBm Mkr1 1.324 0 GHz -55.856 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.5501 GHz File <Temp.png> saved Frequency Auto Tune Center Freq 1.275062500 GHz Start Freq 1.000000000 GHz Stop Freq 1.550125000 GHz CF Step 55.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.0000000 MHz Ref Offset 19 dB Ref 0.00 dBm Mkr3 233.70 MHz -45.319 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz MNR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 173.66 MHz -38.392 dBm 2 N 1 f 241.48 MHz -44.520 dBm 3 N 1 f 233.70 MHz -45.319 dBm 4 5 6 7 8 9 10 11 Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 1.369937500 GHz Ref Offset 19 dB Ref 0.00 dBm Mkr1 1.689 6 GHz -55.656 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 1.7399 GHz File <Temp.png> saved Frequency Auto Tune Center Freq 1.369937500 GHz Start Freq 1.000000000 GHz Stop Freq 1.739875000 GHz CF Step 73.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic

----End of Report----

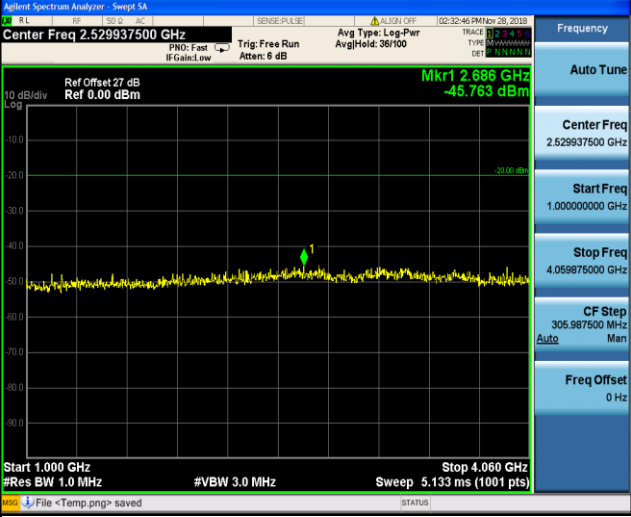
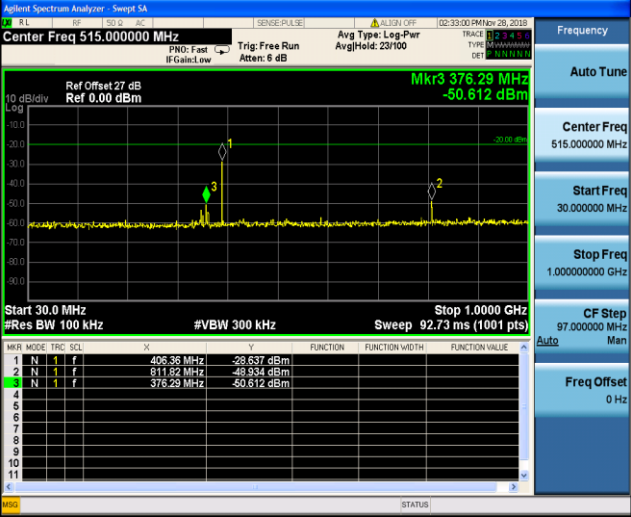
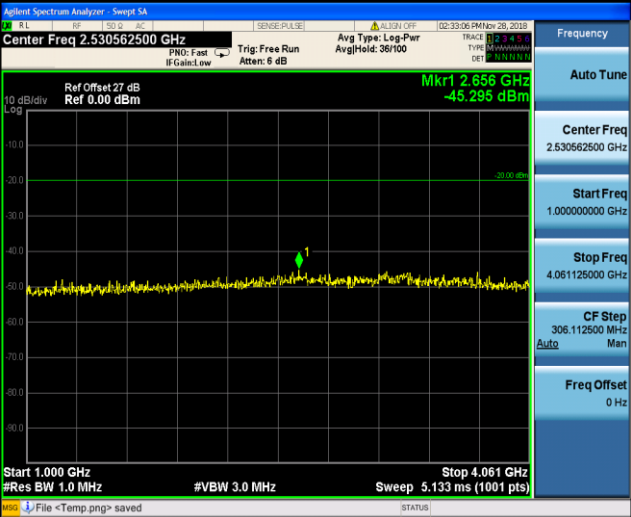


Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{L1}	<table><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><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>399.57 MHz</td><td>-20.050 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>370.47 MHz</td><td>-47.949 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>800.18 MHz</td><td>-47.963 dBm</td><td></td><td></td><td></td></tr></table> Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz	Mkr	Mode	Trc	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz	-20.050 dBm				2	N	1	f	370.47 MHz	-47.949 dBm				3	N	1	f	800.18 MHz	-47.963 dBm			
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Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M2}	 30MHz~1GHz
TX-DNH	4FSK	CH _{M2}	 1GHz~10th Harmonic



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	30MHz~1GHz
TX-DNH	4FSK	CH _{M3}	1GHz~10th Harmonic
TX-DNH	4FSK	CH _{H1}	30MHz~1GHz



Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.849937500 GHz Ref Offset 27 dB Ref 0.00 dBm 10 dB/div Log Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts) Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic

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