

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																																										
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Spectrum Emission Mask RL RF 500 kHz AC SENSE: PULSE ALIGN: AUTO 04:50:46 PM Sep 24, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 Center 438 MHz Span 120 kHz Total Power Ref 38.72 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>-25.64</td><td>(-64.49)</td><td>-3.300 k</td><td>38.14</td><td>(-0.72)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.02</td><td>(-7.26)</td><td>-12.25 k</td><td>-37.83</td><td>(-5.98)</td><td>12.40 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.32</td><td>(-12.32)</td><td>-14.30 k</td><td>-31.84</td><td>(-11.84)</td><td>14.85 k</td><td></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> MSG Alignment Completed STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto 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	-25.64	(-64.49)	-3.300 k	38.14	(-0.72)	250.0		5.625 kHz	12.50 kHz	100.0 Hz	-38.02	(-7.26)	-12.25 k	-37.83	(-5.98)	12.40 k		12.50 kHz	60.00 kHz	100.0 Hz	-32.32	(-12.32)	-14.30 k	-31.84	(-11.84)	14.85 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																																										
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN AUTO 04:51:07 PM Sep 24, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 23 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 Center 438 MHz Span 120 kHz Total Power Ref 38.56 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>30.12</td><td>(-8.73)</td><td>-2.250 k</td><td>36.39</td><td>(-2.47)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.57</td><td>(-2.80)</td><td>-12.25 k</td><td>-17.41</td><td>(-0.83)</td><td>10.30 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.62</td><td>(-13.62)</td><td>-13.85 k</td><td>-31.87</td><td>(-11.87)</td><td>13.15 k</td><td></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> MSO File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE:PULSE ALIGN:AUTO 04-12-04 PM Sep 24, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 6.00 16.0 4.00 24.0 34.0 44.0 54.0 Center 400 MHz Span 120 kHz Total Power Ref 30.41 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>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>-34.81</td><td>(-66.63)</td><td>-2.400 k</td><td>30.35</td><td>(-1.47)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.41</td><td>(-4.97)</td><td>-12.20 k</td><td>-41.12</td><td>(-5.14)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.23</td><td>(-22.23)</td><td>-13.50 k</td><td>-42.90</td><td>(-22.90)</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></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> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_L</td><td> Agilent Spectrum Analyzer - 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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE:PULSE ALIGN:AUTO 04-12-22 PM Sep 24, 2021 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 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 6.00 16.0 4.00 24.0 34.0 44.0 54.0 Center 406 MHz Span 120 kHz Total Power Ref 30.03 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>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>-33.92</td><td>(-65.44)</td><td>-1.700 k</td><td>30.04</td><td>(-1.47)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.72</td><td>(-6.80)</td><td>-12.50 k</td><td>-44.55</td><td>(-6.81)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.27</td><td>(-21.27)</td><td>-12.95 k</td><td>-40.61</td><td>(-20.61)</td><td>14.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-33.92	(-65.44)	-1.700 k	30.04	(-1.47)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.72	(-6.80)	-12.50 k	-44.55	(-6.81)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.27	(-21.27)	-12.95 k	-40.61	(-20.61)	14.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																						
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 30.04 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>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>22.05</td><td>(-9.47)</td><td>-2.250 k</td><td>28.32</td><td>(-3.20)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.55</td><td>(-2.09)</td><td>-12.30 k</td><td>-25.36</td><td>(-1.79)</td><td>10.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.67</td><td>(-20.67)</td><td>-17.20 k</td><td>-39.09</td><td>(-19.09)</td><td>12.80 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> MSG Alignment Completed	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.05	(-9.47)	-2.250 k	28.32	(-3.20)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.55	(-2.09)	-12.30 k	-25.36	(-1.79)	10.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.67	(-20.67)	-17.20 k	-39.09	(-19.09)	12.80 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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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 30.02 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>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>-33.65</td><td>(-65.17)</td><td>-2.200 k</td><td>30.04</td><td>(-1.48)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.16</td><td>(-3.25)</td><td>-12.50 k</td><td>-42.55</td><td>(-5.18)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.67</td><td>(-22.67)</td><td>-19.30 k</td><td>-39.18</td><td>(-19.18)</td><td>20.60 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> MSG File <MASK D.state> recalled	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-33.65	(-65.17)	-2.200 k	30.04	(-1.48)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.16	(-3.25)	-12.50 k	-42.55	(-5.18)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.67	(-22.67)	-19.30 k	-39.18	(-19.18)	20.60 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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 30.02 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>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>22.02</td><td>(-9.50)</td><td>-2.250 k</td><td>28.29</td><td>(-3.23)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.37</td><td>(-0.82)</td><td>-12.45 k</td><td>-41.50</td><td>(-1.58)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.73</td><td>(-18.73)</td><td>-13.45 k</td><td>-40.31</td><td>(-20.31)</td><td>12.80 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> MSG File <Temp.png> saved	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.02	(-9.50)	-2.250 k	28.29	(-3.23)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.37	(-0.82)	-12.45 k	-41.50	(-1.58)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.73	(-18.73)	-13.45 k	-40.31	(-20.31)	12.80 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

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 37.0 dBm 10 dB/div Log 27.0 7.0 3.0 0.0 -3.0 -6.0 -9.0 -12.0 -15.0 -18.0 -21.0 -24.0 -27.0 -30.0 -33.0 -36.0 -39.0 -42.0 -45.0 -48.0 -51.0 -54.0 -57.0 -60.0 Mask Spectrum Center 438 MHz Span 120 kHz Total Power Ref 32.36 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>-31.90</td><td>(-64.44)</td><td>-3.100 k</td><td>31.79</td><td>(-0.76)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.38</td><td>(-4.49)</td><td>-11.95 k</td><td>-40.57</td><td>(-1.68)</td><td>12.50 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.67</td><td>(-23.67)</td><td>-20.05 k</td><td>-41.80</td><td>(-21.80)</td><td>21.40 k</td><td></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 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	-31.90	(-64.44)	-3.100 k	31.79	(-0.76)	250.0		5.625 kHz	12.50 kHz	100.0 Hz	-39.38	(-4.49)	-11.95 k	-40.57	(-1.68)	12.50 k		12.50 kHz	60.00 kHz	100.0 Hz	-43.67	(-23.67)	-20.05 k	-41.80	(-21.80)	21.40 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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			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)																																																													
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5.625 kHz	12.50 kHz	100.0 Hz	-37.61	(-0.54)	-12.25 k	-5.678	(-0.96)	7.800 k																																																																	
12.50 kHz	60.00 kHz	100.0 Hz	-37.97	(-17.97)	-13.70 k	-38.56	(-18.56)	12.75 k																																																																	
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																	
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																	
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																	
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 36.0 dBm 10 dB/div Log 27.0 7.0 3.0 0.0 -3.0 -6.0 -9.0 -12.0 -15.0 -18.0 -21.0 -24.0 -27.0 -30.0 -33.0 -36.0 -39.0 -42.0 -45.0 -48.0 -51.0 -54.0 -57.0 -60.0 Mask Spectrum Center 470 MHz Span 120 kHz Total Power Ref 31.34 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>-33.74</td><td>(-65.55)</td><td>-3.200 k</td><td>31.26</td><td>(-0.55)</td><td>250.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.52</td><td>(-8.34)</td><td>-11.75 k</td><td>-45.18</td><td>(-5.55)</td><td>12.50 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.14</td><td>(-21.14)</td><td>-19.15 k</td><td>-39.12</td><td>(-19.12)</td><td>12.55 k</td><td></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 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	-33.74	(-65.55)	-3.200 k	31.26	(-0.55)	250.0		5.625 kHz	12.50 kHz	100.0 Hz	-42.52	(-8.34)	-11.75 k	-45.18	(-5.55)	12.50 k		12.50 kHz	60.00 kHz	100.0 Hz	-41.14	(-21.14)	-19.15 k	-39.12	(-19.12)	12.55 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	—	(—)	—	—	(—)	—	
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	dBm	Upper ΔLim(dB)	Freq (Hz)																																																													
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																	
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																	
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																	

Appendix C:Emission Mask

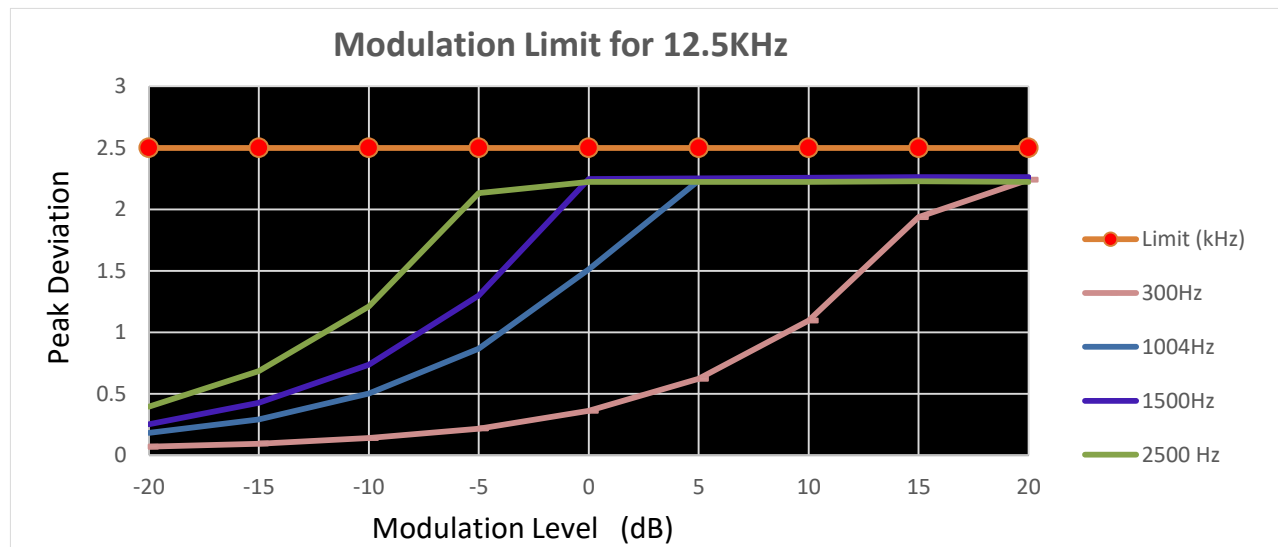
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRFSSQACSENSE-PLAELALIGN-AUTO04:56:00 PM Sep 24, 2021 Center Freq 469.987500 MHzCenter Freq: 469.987500 MHzRadio Std: None PASSIF Gain: LowTrig: Free RunAvg: 100.00% of 10#Atten: 40 dBRadio Device: BTS Ref Offset 23 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 40.0 80.0 120.0 160.0 200.0 240.0 280.0 320.0 360.0 400.0 440.0 480.0 520.0 560.0 600.0 640.0 680.0 720.0 760.0 800.0 840.0 880.0 920.0 960.0 1000.0 Center 470 MHzSpan 120 kHz Total Power Ref31.51 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>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>23.24</td><td>(-8.57)</td><td>-2.250 k</td><td>29.52</td><td>(-2.29)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.00</td><td>(-0.56)</td><td>-12.20 k</td><td>-39.43</td><td>(-0.09)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.83</td><td>(-18.83)</td><td>-13.55 k</td><td>-39.64</td><td>(-19.64)</td><td>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><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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.24	(-8.57)	-2.250 k	29.52	(-2.29)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.00	(-0.56)	-12.20 k	-39.43	(-0.09)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.83	(-18.83)	-13.55 k	-39.64	(-19.64)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.07	0.183	0.253	0.396	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.095	0.293	0.427	0.684	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.14	0.503	0.738	1.21	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.217	0.868	1.299	2.132	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.362	1.513	2.246	2.222	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.622	2.234	2.252	2.223	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.096	2.243	2.257	2.223	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.936	2.242	2.261	2.227	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.241	2.245	2.262	2.222	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

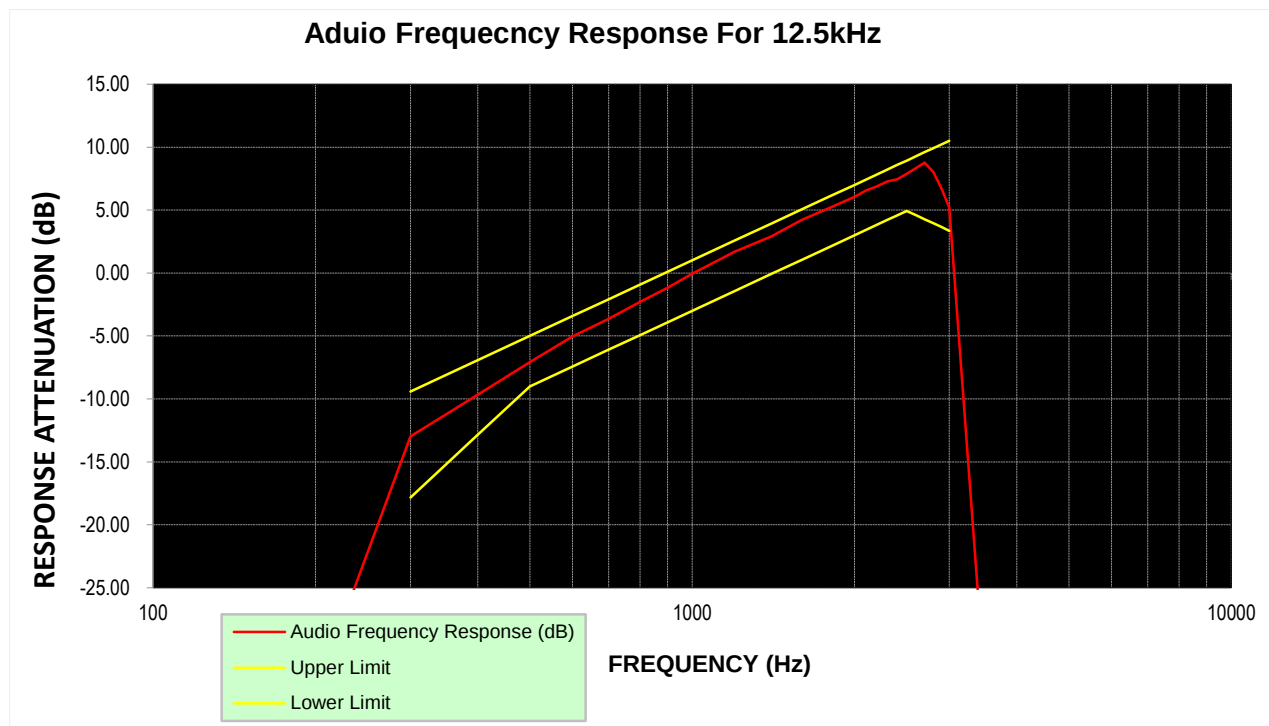


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-33.39			PASS
TX-ANH	FM	CH _{M2}	200	-33.41			PASS
TX-ANH	FM	CH _{M2}	300	-12.97	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-9.66	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-7.07	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.04	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.65	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.28	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.18	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.05	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.69	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.90	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.23	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.18	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.04	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.54	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.89	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	7.26	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	7.44	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	7.87	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	8.34	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.77	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.02	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.70	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	5.21	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-33.46			PASS
TX-ANH	FM	CH _{M2}	4000	-33.88			PASS
TX-ANH	FM	CH _{M2}	4500	-33.82			PASS
TX-ANH	FM	CH _{M2}	5000	-33.81			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	0.233	0.221	0.230	0.251	0.256	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.221	0.223	0.228	0.230	0.261	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.230	0.228	0.230	0.239	0.265	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.216	0.229	0.231	0.231	0.262	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.220	0.222	0.224	0.243	0.266	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.213	0.217	0.217	0.229	0.247	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.222	0.227	0.225	0.239	0.259	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.232	0.222	0.218	0.244	0.271	±5.0	PASS
TX-DNH	4FSK	V _N	50	0.222	0.238	0.223	0.232	0.250	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.213	0.240	0.224	0.247	0.267	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.221	0.233	0.233	0.250	0.257	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.214	0.232	0.238	0.255	0.269	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.221	0.233	0.233	0.242	0.256	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.218	0.237	0.225	0.239	0.255	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.202	0.219	0.216	0.232	0.246	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.202	0.230	0.227	0.240	0.266	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.222	0.220	0.237	0.236	0.248	±5.0	PASS
TX-DNL	4FSK	V _N	50	0.208	0.239	0.219	0.253	0.269	±5.0	PASS
TX-ANH	FM	V _N	-30	0.685	0.693	0.728	0.710	0.679	±5.0	PASS
TX-ANH	FM	V _N	-20	0.700	0.706	0.686	0.683	0.708	±5.0	PASS
TX-ANH	FM	V _N	-10	0.730	0.713	0.720	0.689	0.731	±5.0	PASS
TX-ANH	FM	V _N	0	0.721	0.738	0.718	0.681	0.684	±5.0	PASS
TX-ANH	FM	V _N	10	0.673	0.712	0.731	0.697	0.709	±5.0	PASS
TX-ANH	FM	V _N	20	0.673	0.676	0.677	0.670	0.672	±5.0	PASS
TX-ANH	FM	V _N	30	0.729	0.721	0.681	0.718	0.732	±5.0	PASS
TX-ANH	FM	V _N	40	0.701	0.731	0.686	0.704	0.714	±5.0	PASS
TX-ANH	FM	V _N	50	0.718	0.706	0.726	0.732	0.686	±5.0	PASS
TX-ANL	FM	V _N	-30	0.722	0.709	0.692	0.701	0.714	±5.0	PASS
TX-ANL	FM	V _N	-20	0.729	0.737	0.695	0.689	0.733	±5.0	PASS
TX-ANL	FM	V _N	-10	0.672	0.706	0.687	0.736	0.687	±5.0	PASS
TX-ANL	FM	V _N	0	0.700	0.710	0.680	0.720	0.679	±5.0	PASS
TX-ANL	FM	V _N	10	0.684	0.702	0.742	0.671	0.687	±5.0	PASS
TX-ANL	FM	V _N	20	0.666	0.674	0.676	0.670	0.672	±5.0	PASS
TX-ANL	FM	V _N	30	0.701	0.721	0.729	0.699	0.732	±5.0	PASS
TX-ANL	FM	V _N	40	0.730	0.684	0.688	0.732	0.686	±5.0	PASS
TX-ANL	FM	V _N	50	0.681	0.722	0.738	0.716	0.724	±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	0.213	0.217	0.217	0.229	0.247	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.214	0.218	0.220	0.233	0.247	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.225	0.226	0.219	0.237	0.258	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.202	0.219	0.216	0.232	0.246	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.203	0.220	0.220	0.233	0.249	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.205	0.225	0.217	0.239	0.250	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.673	0.676	0.677	0.670	0.672	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.680	0.678	0.681	0.681	0.676	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.713	0.698	0.681	0.703	0.709	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.666	0.674	0.676	0.670	0.672	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.676	0.677	0.682	0.680	0.676	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.675	0.697	0.698	0.693	0.689	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 45.00 dBm Offset 27.00 dB Att 28 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: IFY (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="4">Carrier Power 37.81 dBm</td><td colspan="4">Carrier Offset 222.45 Hz</td></tr><tr><td>FM</td><td>+Peak 16.179 kHz</td><td>-Peak -12.946 kHz</td><td>+Peak/2 14.562 kHz</td><td>RMS 2.7714 kHz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod. Waiting for Trigger...Measuring...28.09.2021 13:39:46 Date: 28 SEP 2021 13:39:46	Carrier Power 37.81 dBm				Carrier Offset 222.45 Hz				FM	+Peak 16.179 kHz	-Peak -12.946 kHz	+Peak/2 14.562 kHz	RMS 2.7714 kHz	Mod. Freq.	SINAD	THD
Carrier Power 37.81 dBm				Carrier Offset 222.45 Hz															
FM	+Peak 16.179 kHz	-Peak -12.946 kHz	+Peak/2 14.562 kHz	RMS 2.7714 kHz	Mod. Freq.	SINAD	THD												
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 45.00 dBm Offset 27.00 dB Att 28 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: IFY (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="4">Carrier Power 37.76 dBm</td><td colspan="4">Carrier Offset 218.75 Hz</td></tr><tr><td>FM</td><td>+Peak 19.484 kHz</td><td>-Peak -21.495 kHz</td><td>+Peak/2 20.489 kHz</td><td>RMS 2.7543 kHz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod. Waiting for Trigger...Measuring...28.09.2021 13:39:18 Date: 28 SEP 2021 13:39:18	Carrier Power 37.76 dBm				Carrier Offset 218.75 Hz				FM	+Peak 19.484 kHz	-Peak -21.495 kHz	+Peak/2 20.489 kHz	RMS 2.7543 kHz	Mod. Freq.	SINAD	THD
Carrier Power 37.76 dBm				Carrier Offset 218.75 Hz															
FM	+Peak 19.484 kHz	-Peak -21.495 kHz	+Peak/2 20.489 kHz	RMS 2.7543 kHz	Mod. Freq.	SINAD	THD												
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 45.00 dBm Offset 27.00 dB Att 28 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: IFY (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="4">Carrier Power 37.77 dBm</td><td colspan="4">Carrier Offset 224.27 Hz</td></tr><tr><td>FM</td><td>+Peak 12.567 kHz</td><td>-Peak -12.917 kHz</td><td>+Peak/2 12.742 kHz</td><td>RMS 2.7453 kHz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod. Waiting for Trigger...Measuring...28.09.2021 13:40:33 Date: 28 SEP 2021 13:40:33	Carrier Power 37.77 dBm				Carrier Offset 224.27 Hz				FM	+Peak 12.567 kHz	-Peak -12.917 kHz	+Peak/2 12.742 kHz	RMS 2.7453 kHz	Mod. Freq.	SINAD	THD
Carrier Power 37.77 dBm				Carrier Offset 224.27 Hz															
FM	+Peak 12.567 kHz	-Peak -12.917 kHz	+Peak/2 12.742 kHz	RMS 2.7453 kHz	Mod. Freq.	SINAD	THD												

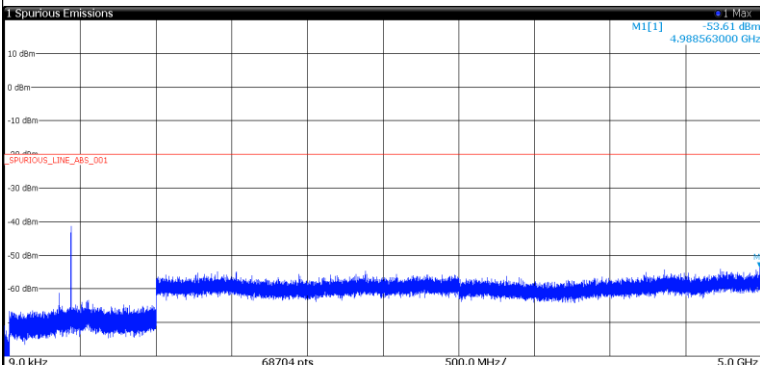
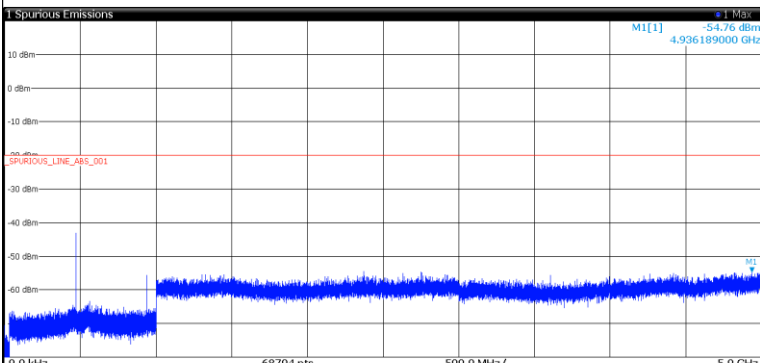
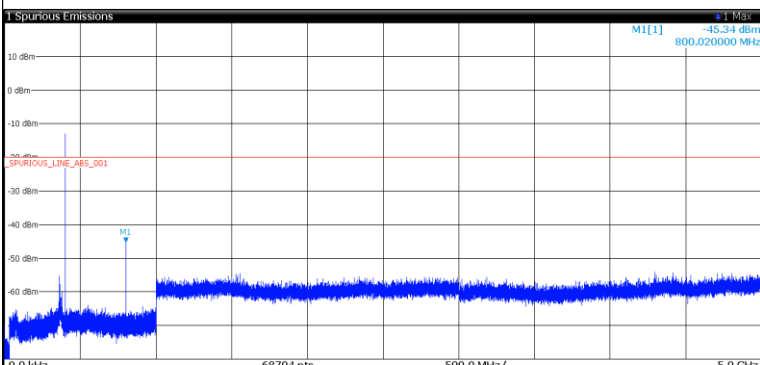
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 45.00 dBm Offset 27.00 dB Att 28 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: IFB(17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 37.78 dBm Carrier Offset 218.61 Hz <table><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>16.173 kHz</td><td>-16.236 kHz</td><td>16.204 kHz</td><td>2.7714 kHz</td><td>---</td><td>---</td><td>---</td></tr></tbody></table> Analog Demod. Waiting for Trigger... Measuring... 28.09.2021 13:39:25		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	16.173 kHz	-16.236 kHz	16.204 kHz	2.7714 kHz	---	---	---
	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD												
FM	16.173 kHz	-16.236 kHz	16.204 kHz	2.7714 kHz	---	---	---												

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -45.09 dBm 800.020000 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.58845 kHz</td><td>-80.06 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-70.05 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-12.96 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.91169 GHz</td><td>-54.15 dBm</td><td>-200.00 dB</td></tr></table> Date: 28 SEP 2021 14:32:33	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	24.58845 kHz	-80.06 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-70.05 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-12.96 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.91169 GHz	-54.15 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.58845 kHz	-80.06 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-70.05 dBm	-200.00 dB																												
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1.000 GHz	5.000 GHz	1.000 MHz	4.91169 GHz	-54.15 dBm	-200.00 dB																												
TX-DNH	4FSK	CH _{M1}	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -49.66 dBm 811.962000 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>47.71969 kHz</td><td>-77.62 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-70.10 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-21.64 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.99469 GHz</td><td>-53.42 dBm</td><td>-200.00 dB</td></tr></table> Date: 28 SEP 2021 14:32:53	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	47.71969 kHz	-77.62 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-70.10 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.64 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.99469 GHz	-53.42 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	47.71969 kHz	-77.62 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-70.10 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.64 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	4.99469 GHz	-53.42 dBm	-200.00 dB																												
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -49.53 dBm 812.205000 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>47.71969 kHz</td><td>-75.23 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>191.03349 kHz</td><td>-71.04 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-21.84 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.94981 GHz</td><td>-53.21 dBm</td><td>-200.00 dB</td></tr></table> Date: 28 SEP 2021 14:33:28	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	47.71969 kHz	-75.23 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	191.03349 kHz	-71.04 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.84 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.94981 GHz	-53.21 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	47.71969 kHz	-75.23 dBm	-200.00 dB																												
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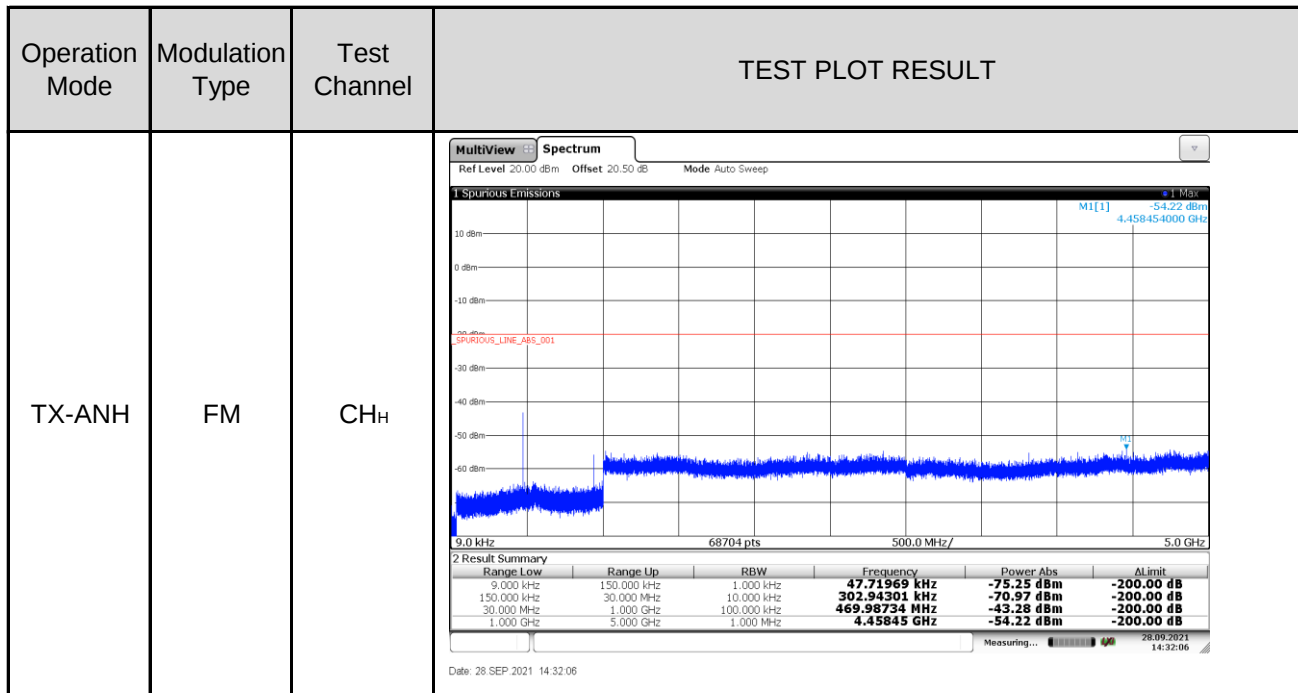
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _{M3}	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -53.61 dBm 4.988563000 GHz  2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>47.71969 kHz</td><td>-74.07 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-70.87 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>438.00866 MHz</td><td>-41.31 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.98856 GHz</td><td>-53.61 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 28 SEP 2021 14:33:45	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	47.71969 kHz	-74.07 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-70.87 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-41.31 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.98856 GHz	-53.61 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	47.71969 kHz	-74.07 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-70.87 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-41.31 dBm	-200.00 dB																												
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TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -54.76 dBm 4.936189000 GHz  2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.32311 kHz</td><td>-75.78 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-70.58 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>469.98734 MHz</td><td>-43.22 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>2.37177 GHz</td><td>-54.56 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 28 SEP 2021 14:34:16	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	48.32311 kHz	-75.78 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-70.58 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	469.98734 MHz	-43.22 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	2.37177 GHz	-54.56 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	48.32311 kHz	-75.78 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-70.58 dBm	-200.00 dB																												
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TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -45.34 dBm 800.020000 MHz  2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.52425 kHz</td><td>-73.13 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-69.82 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-13.00 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.29758 GHz</td><td>-54.17 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 28 SEP 2021 14:30:50	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	48.52425 kHz	-73.13 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-69.82 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-13.00 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.29758 GHz	-54.17 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	48.52425 kHz	-73.13 dBm	-200.00 dB																												
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _{M1}	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -49.40 dBm 811.962000 MHz SPURIOUS_LINE_AAS_001 -30.00 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.12197 kHz</td><td>-71.90 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-71.79 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-21.67 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.84832 GHz</td><td>-53.63 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 28.09.2021 14:31:16 Date: 28 SEP 2021 14:31:16	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	48.12197 kHz	-71.90 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-71.79 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.67 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.84832 GHz	-53.63 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	48.12197 kHz	-71.90 dBm	-200.00 dB																												
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TX-ANH	FM	CH _{M2}	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -49.54 dBm 812.205000 MHz SPURIOUS_LINE_AAS_001 -30.00 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.52425 kHz</td><td>-77.66 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-70.77 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-21.89 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.41733 GHz</td><td>-54.59 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 28.09.2021 14:31:33 Date: 28 SEP 2021 14:31:32	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	48.52425 kHz	-77.66 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-70.77 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.89 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.41733 GHz	-54.59 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
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TX-ANH	FM	CH _{M3}	MultiViewSpectrum Ref Level 20.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -54.05 dBm 4.397706000 GHz SPURIOUS_LINE_AAS_001 -30.00 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.52425 kHz</td><td>-77.80 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-69.35 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>438.00866 MHz</td><td>-41.23 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.39771 GHz</td><td>-54.05 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 28.09.2021 14:31:50 Date: 28 SEP 2021 14:31:50	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	48.52425 kHz	-77.80 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-69.35 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-41.23 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.39771 GHz	-54.05 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	48.52425 kHz	-77.80 dBm	-200.00 dB																												
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Appendix I:Spurious Emission On Antenna Port



----End of Report----