



Appendix Report
FCC PART 90 Test Form

QRE315 V 3.1 (2019-11)

Project No.	SHT2011082303EW	Test sample No.	DP810-02
Start test date	2020/12/3	Finish date	2020/12/4
Temperature	23.2℃	Humidity	45%
Test Engineer	Zijian Li	Auditor	Xiaodong Zhu

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	12/3	PASS
B	Occupied Bandwidth	12/4	PASS
C	Emission Mask	12/4	PASS
D	Modulation Limit	12/3	PASS
E	Aduio Frequency Response	12/3	PASS
F	Frequency Stability Test & Temperature	12/3	PASS
G	Frequency Stability Test & Voltage	12/3	PASS
H	Transmitter Frequency Behavior	12/3	PASS
I	Spurious Emission On Antenna Port	12/4	PASS

**Appendix A:Maximum Transmitter Power**

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	32.61	1.82	2.00	-8.8	±20	PASS
TX-DNH	4FSK	CH _{M1}	32.63	1.83	2.00	-8.4	±20	PASS
TX-DNH	4FSK	CH _{M2}	32.55	1.80	2.00	-10.1	±20	PASS
TX-DNH	4FSK	CH _{M3}	32.58	1.81	2.00	-9.4	±20	PASS
TX-DNH	4FSK	CH _H	32.60	1.82	2.00	-9.0	±20	PASS
TX-DNL	4FSK	CH _L	30.45	1.11	1.00	10.9	±20	PASS
TX-DNL	4FSK	CH _{M1}	30.63	1.16	1.00	15.6	±20	PASS
TX-DNL	4FSK	CH _{M2}	30.27	1.06	1.00	6.4	±20	PASS
TX-DNL	4FSK	CH _{M3}	30.36	1.09	1.00	8.6	±20	PASS
TX-DNL	4FSK	CH _H	29.65	0.92	1.00	-7.7	±20	PASS
TX-ANH	FM	CH _L	32.86	1.93	2.00	-3.4	±20	PASS
TX-ANH	FM	CH _{M1}	32.78	1.90	2.00	-5.2	±20	PASS
TX-ANH	FM	CH _{M2}	32.81	1.91	2.00	-4.5	±20	PASS
TX-ANH	FM	CH _{M3}	32.66	1.85	2.00	-7.7	±20	PASS
TX-ANH	FM	CH _H	32.49	1.77	2.00	-11.3	±20	PASS
TX-ANL	FM	CH _L	30.13	1.03	1.00	3.0	±20	PASS
TX-ANL	FM	CH _{M1}	30.21	1.05	1.00	5.0	±20	PASS
TX-ANL	FM	CH _{M2}	30.19	1.04	1.00	4.5	±20	PASS
TX-ANL	FM	CH _{M3}	30.31	1.07	1.00	7.4	±20	PASS
TX-ANL	FM	CH _H	30.65	1.16	1.00	16.1	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.179	9.592	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.215	9.232	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.333	9.424	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.368	9.593	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.641	9.551	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.158	9.217	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.168	9.338	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.080	9.340	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.441	9.287	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.588	9.834	≤11.25	PASS
TX-ANH	FM	CH _L	5.293	10.130	≤11.25	PASS
TX-ANH	FM	CH _{M1}	9.907	10.130	≤11.25	PASS
TX-ANH	FM	CH _{M2}	8.306	10.130	≤11.25	PASS
TX-ANH	FM	CH _{M3}	9.898	10.140	≤11.25	PASS
TX-ANH	FM	CH _H	9.972	10.160	≤11.25	PASS
TX-ANL	FM	CH _L	5.255	10.130	≤11.25	PASS
TX-ANL	FM	CH _{M1}	9.858	10.130	≤11.25	PASS
TX-ANL	FM	CH _{M2}	5.714	10.130	≤11.25	PASS
TX-ANL	FM	CH _{M3}	9.896	10.140	≤11.25	PASS
TX-ANL	FM	CH _H	9.971	10.160	≤11.25	PASS

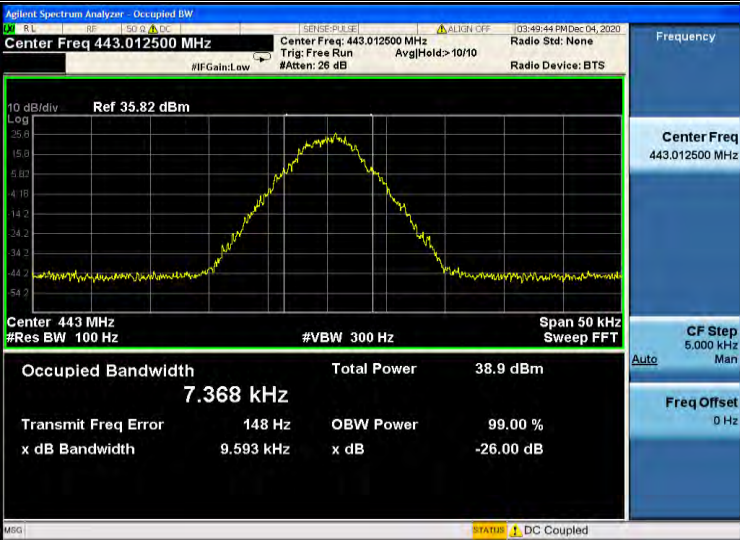
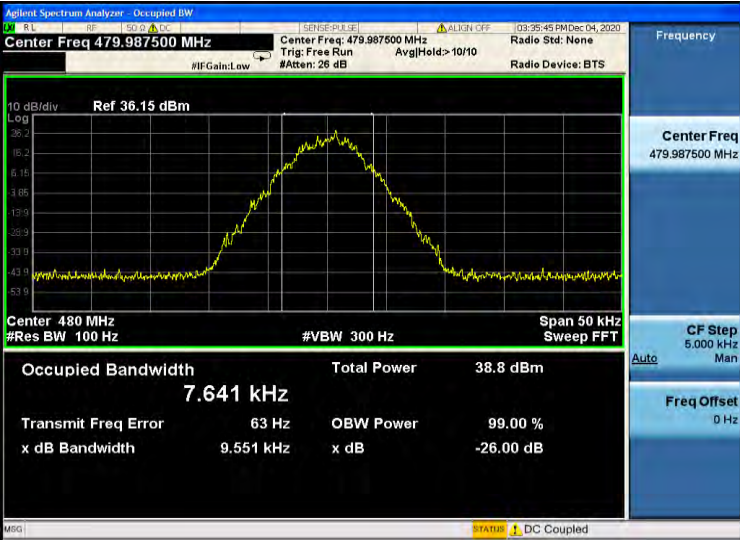
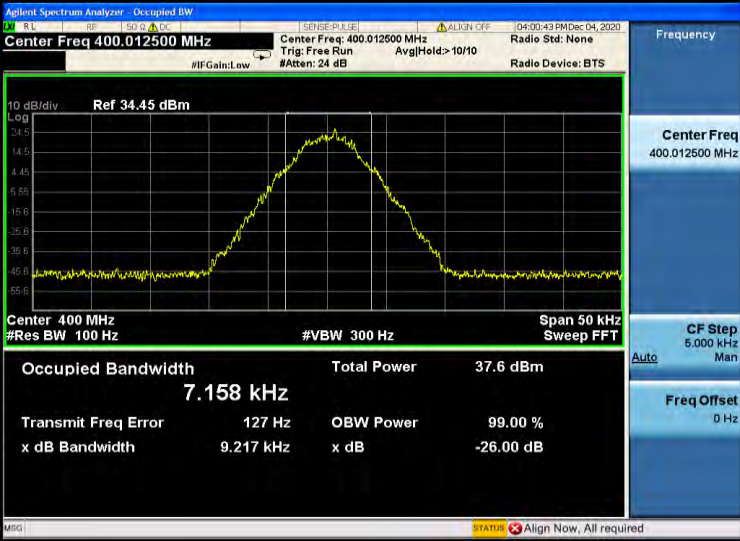


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Occupied Bandwidth: 7.179 kHz Total Power: 38.7 dBm Transmit Freq Error: 103 Hz x dB Bandwidth: 9.592 kHz OBW Power: 99.00 % x dB: -26.00 dB
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 405.987500 MHz Occupied Bandwidth: 7.215 kHz Total Power: 38.5 dBm Transmit Freq Error: 129 Hz x dB Bandwidth: 9.232 kHz OBW Power: 99.00 % x dB: -26.00 dB
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz Occupied Bandwidth: 7.333 kHz Total Power: 38.3 dBm Transmit Freq Error: 267 Hz x dB Bandwidth: 9.424 kHz OBW Power: 99.00 % x dB: -26.00 dB



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	
TX-DNH	4FSK	CH _H	
TX-DNL	4FSK	CH _L	

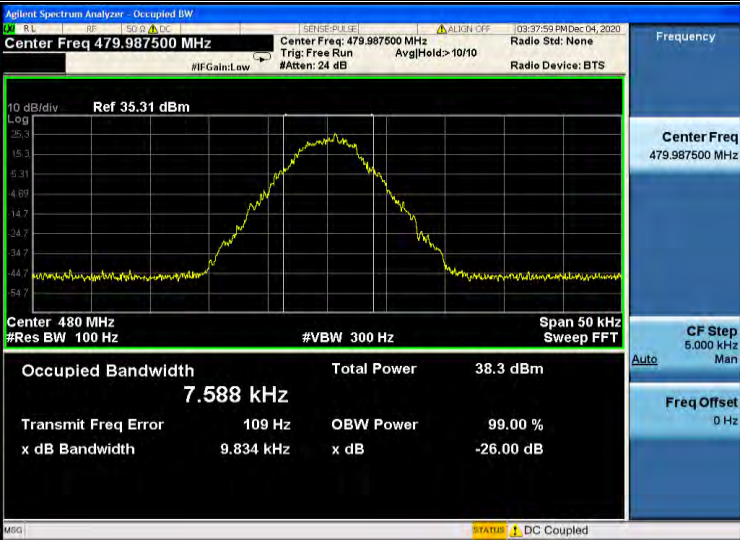
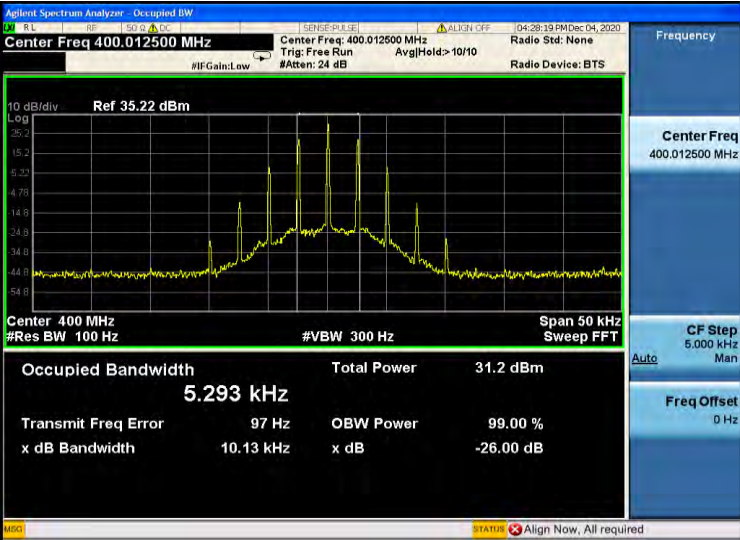
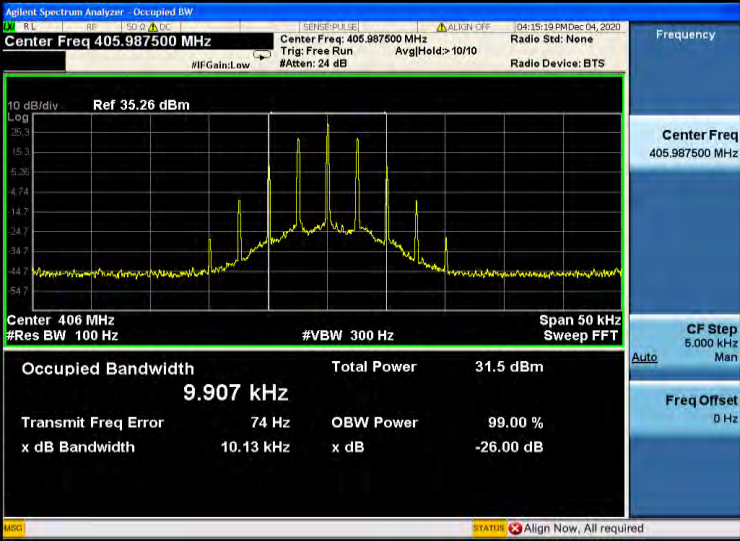


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.34 dBm 10 dB/div Log Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.168 kHz Total Power 37.4 dBm Transmit Freq Error 155 Hz OBW Power 99.00 % x dB Bandwidth 9.338 kHz x dB -26.00 dB Frequency Center Freq 405.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq 406.112500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.40 dBm 10 dB/div Log Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.080 kHz Total Power 37.7 dBm Transmit Freq Error 165 Hz OBW Power 99.00 % x dB Bandwidth 9.340 kHz x dB -26.00 dB Frequency Center Freq 406.112500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 443.012500 MHz Center Freq 443.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.83 dBm 10 dB/div Log Center 443 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.441 kHz Total Power 37.9 dBm Transmit Freq Error 146 Hz OBW Power 99.00 % x dB Bandwidth 9.287 kHz x dB -26.00 dB Frequency Center Freq 443.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS Align Now, All required

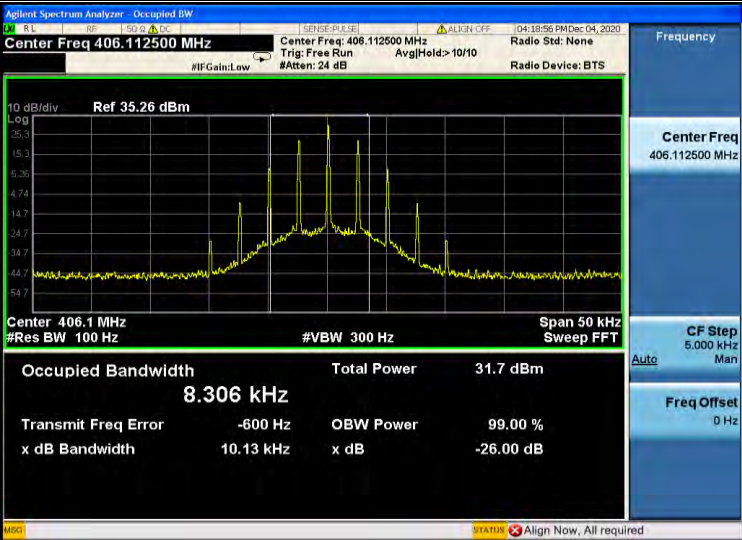
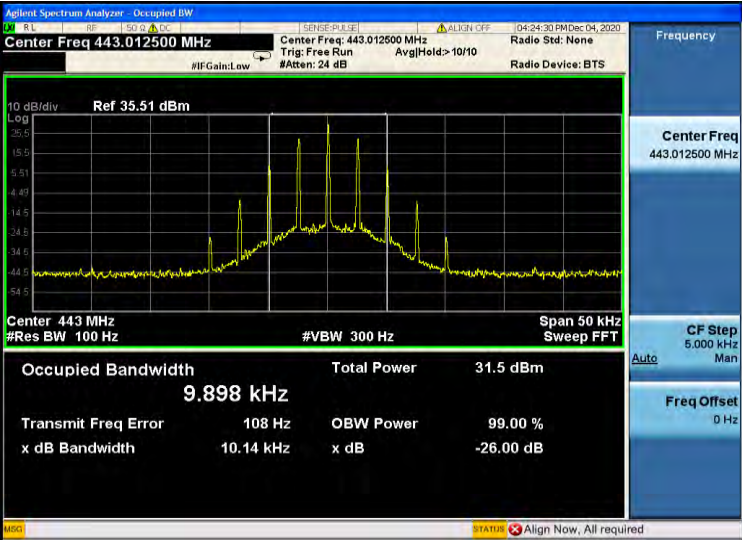
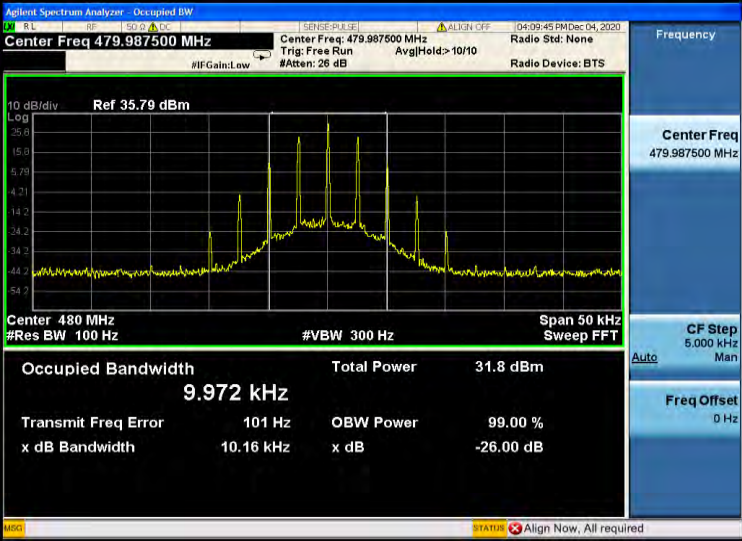


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M1}	

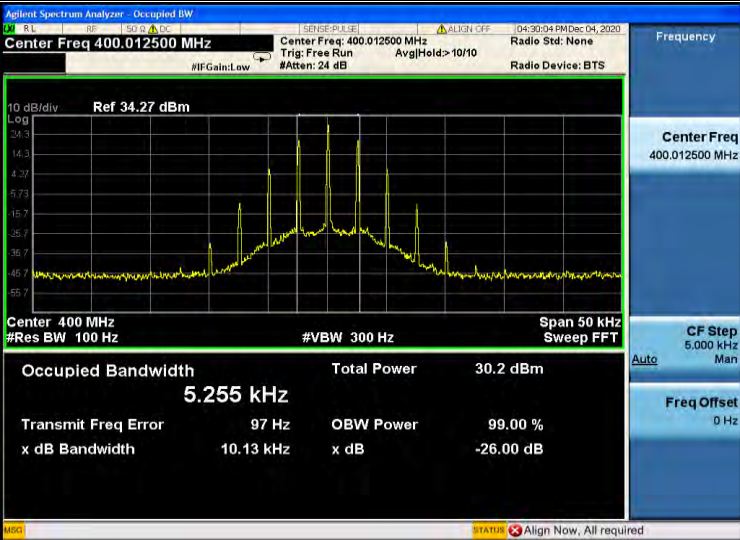
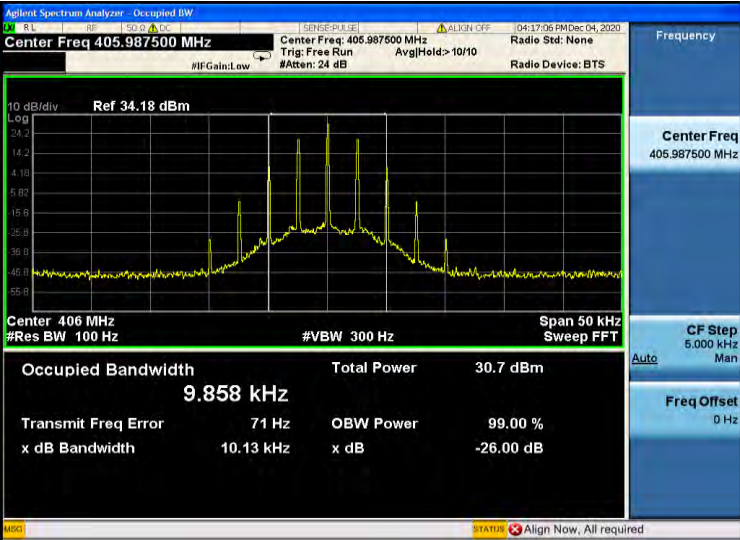
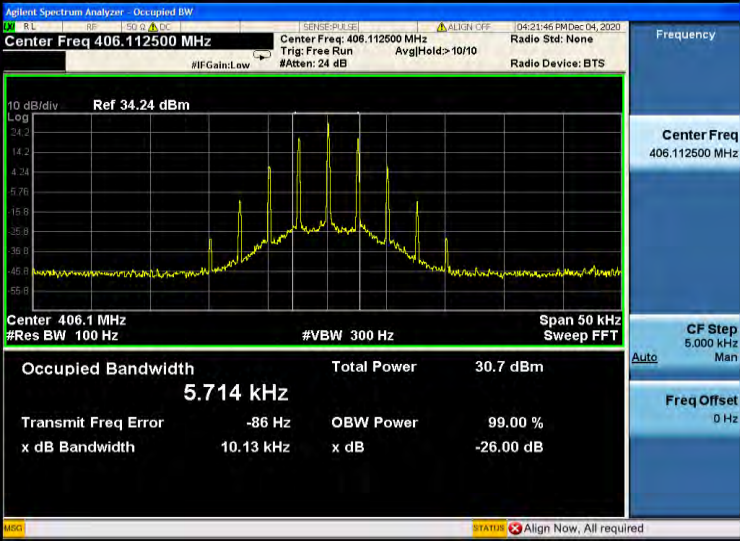


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	
TX-ANH	FM	CH _{M3}	
TX-ANH	FM	CH _H	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	
TX-ANL	FM	CH _{M1}	
TX-ANL	FM	CH _{M2}	

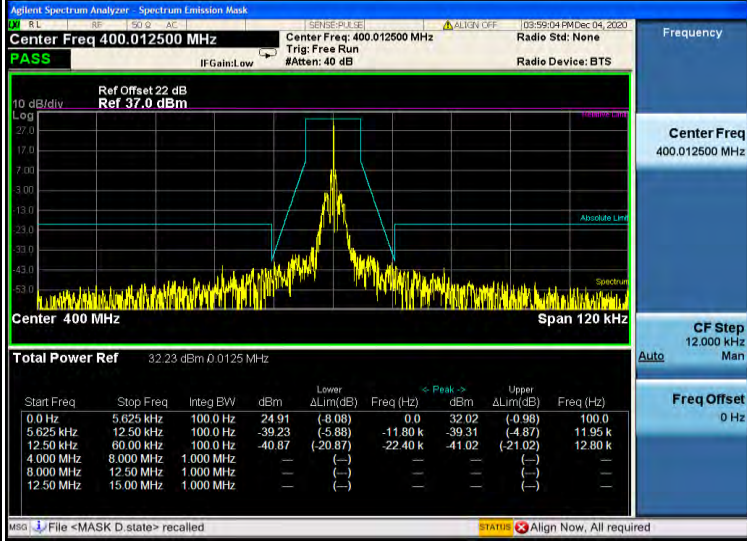
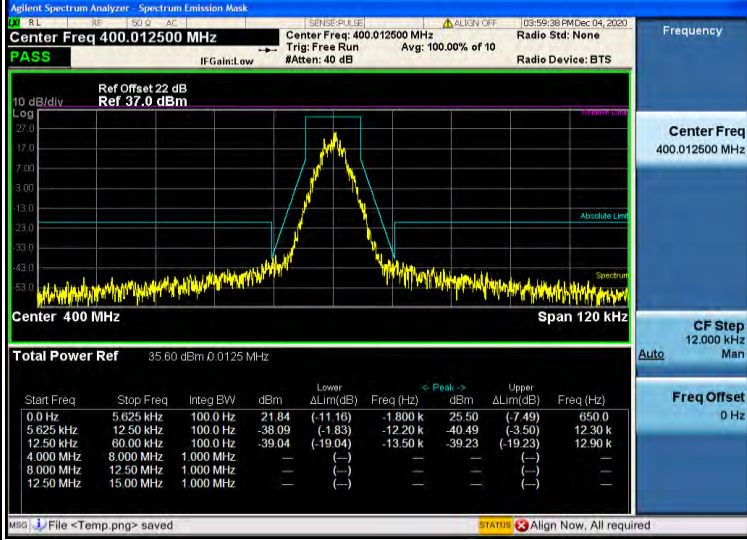
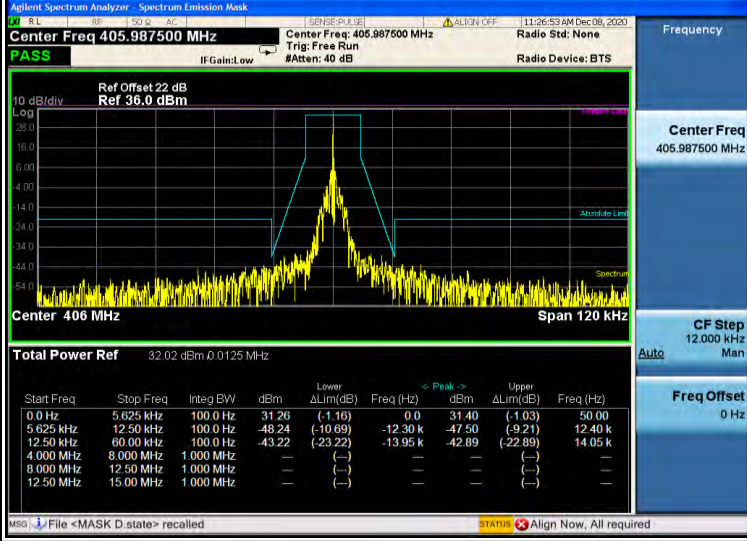


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 443.012500 MHz Trig: Free Run #Atten: 24 dB Radio Device: BTS Ref 34.62 dBm Center 443 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.896 kHz Total Power 30.6 dBm Transmit Freq Error 109 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB Frequency Center Freq 443.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Align Now, All required
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq: 479.987500 MHz Trig: Free Run #Atten: 24 dB Radio Device: BTS Ref 34.81 dBm Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.971 kHz Total Power 31.1 dBm Transmit Freq Error 110 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 479.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Align Now, All required



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _{M1}	



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 34.40 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>22.51</td><td>(-9.92)</td><td>-800.0</td><td>21.81</td><td>(-10.62)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.80</td><td>(-4.88)</td><td>-12.35 k</td><td>-43.04</td><td>(-4.76)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.36</td><td>(-20.36)</td><td>-13.00 k</td><td>-40.80</td><td>(-20.80)</td><td>13.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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 dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.51	(-9.92)	-800.0	21.81	(-10.62)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.80	(-4.88)	-12.35 k	-43.04	(-4.76)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.36	(-20.36)	-13.00 k	-40.80	(-20.80)	13.45 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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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 31.95 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>13.36</td><td>(-19.61)</td><td>0.0</td><td>31.92</td><td>(-1.05)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.70</td><td>(-3.24)</td><td>-12.50 k</td><td>-41.25</td><td>(-5.69)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.13</td><td>(-21.13)</td><td>-20.55 k</td><td>-41.50</td><td>(-21.50)</td><td>20.75 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> 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	13.36	(-19.61)	0.0	31.92	(-1.05)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.70	(-3.24)	-12.50 k	-41.25	(-5.69)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.13	(-21.13)	-20.55 k	-41.50	(-21.50)	20.75 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	—	(—)	—	—	(—)	—
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	13.36	(-19.61)	0.0	31.92	(-1.05)	100.0																																																										
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 35.63 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>21.47</td><td>(-11.50)</td><td>-600.0</td><td>28.01</td><td>(-4.96)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.90</td><td>(-4.52)</td><td>-12.35 k</td><td>-40.88</td><td>(-2.41)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.34</td><td>(-21.34)</td><td>-13.00 k</td><td>-39.59</td><td>(-19.59)</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> 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	21.47	(-11.50)	-600.0	28.01	(-4.96)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.90	(-4.52)	-12.35 k	-40.88	(-2.41)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.34	(-21.34)	-13.00 k	-39.59	(-19.59)	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	—	(—)	—	—	(—)	—
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	21.47	(-11.50)	-600.0	28.01	(-4.96)	650.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.90	(-4.52)	-12.35 k	-40.88	(-2.41)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-41.34	(-21.34)	-13.00 k	-39.59	(-19.59)	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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run #Atten: 40 dB Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log Center 443 MHz Span 120 kHz Total Power Ref 31.99 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>23.12</td><td>(-10.05)</td><td>0.0</td><td>31.83</td><td>(-1.34)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.93</td><td>(-3.66)</td><td>-12.50 k</td><td>-44.20</td><td>(-6.30)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.64</td><td>(-22.64)</td><td>-14.25 k</td><td>-41.73</td><td>(-21.73)</td><td>14.40 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> MSQ File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 443.012500 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	23.12	(-10.05)	0.0	31.83	(-1.34)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.93	(-3.66)	-12.50 k	-44.20	(-6.30)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.64	(-22.64)	-14.25 k	-41.73	(-21.73)	14.40 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log Center 443 MHz Span 120 kHz Total Power Ref 35.18 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>22.96</td><td>(-10.21)</td><td>0.0</td><td>25.43</td><td>(-7.74)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.68</td><td>(-4.14)</td><td>-12.40 k</td><td>-39.08</td><td>(-1.91)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.26</td><td>(-19.26)</td><td>-14.20 k</td><td>-40.14</td><td>(-20.14)</td><td>15.00 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> MSQ File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 443.012500 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	22.96	(-10.21)	0.0	25.43	(-7.74)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.68	(-4.14)	-12.40 k	-39.08	(-1.91)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.26	(-19.26)	-14.20 k	-40.14	(-20.14)	15.00 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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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run #Atten: 40 dB Ref Offset 22 dB Ref 38.0 dBm 10 dB/div Log Center 480 MHz Span 120 kHz Total Power Ref 33.11 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>26.88</td><td>(-6.66)</td><td>0.0</td><td>32.46</td><td>(-1.08)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.59</td><td>(-3.70)</td><td>-12.50 k</td><td>-42.46</td><td>(-5.65)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.52</td><td>(-21.52)</td><td>-13.85 k</td><td>-41.65</td><td>(-21.65)</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><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> MSQ File <MASK D.state> recalled STATUS Frequency Center Freq 479.987500 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	26.88	(-6.66)	0.0	32.46	(-1.08)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.59	(-3.70)	-12.50 k	-42.46	(-5.65)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.52	(-21.52)	-13.85 k	-41.65	(-21.65)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Ref Offset 22 dB Ref 38.0 dBm Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low #Atten: 40 dB 10 dB/div Log Center 480 MHz Span 120 kHz Total Power Ref 35.61 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 -> 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>21.87</td><td>(-11.67)</td><td>-1.050 k</td><td>25.23</td><td>(-8.32)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.26</td><td>(-2.09)</td><td>-12.40 k</td><td>-39.48</td><td>(-2.32)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.55</td><td>(-19.55)</td><td>-13.00 k</td><td>-39.01</td><td>(-19.01)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <Temp.png> saved	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	21.87	(-11.67)	-1.050 k	25.23	(-8.32)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.26	(-2.09)	-12.40 k	-39.48	(-2.32)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.55	(-19.55)	-13.00 k	-39.01	(-19.01)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	Frequency Center Freq 479.987500 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)																																																								
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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 22 dB Ref 36.0 dBm Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low #Atten: 40 dB 10 dB/div Log Center 400 MHz Span 120 kHz Total Power Ref 31.17 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 -> 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>23.27</td><td>(-8.69)</td><td>0.0</td><td>30.84</td><td>(-1.12)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.98</td><td>(-5.23)</td><td>-12.40 k</td><td>-43.93</td><td>(-4.45)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.00</td><td>(-22.00)</td><td>-14.25 k</td><td>-41.69</td><td>(-21.69)</td><td>14.40 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></table> MSO File <MASK D state> recalled	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	23.27	(-8.69)	0.0	30.84	(-1.12)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.98	(-5.23)	-12.40 k	-43.93	(-4.45)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.00	(-22.00)	-14.25 k	-41.69	(-21.69)	14.40 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	—	(—)	—	—	(—)	—	Frequency Center Freq 400.012500 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)																																																								
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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 22 dB Ref 36.0 dBm Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low #Atten: 40 dB 10 dB/div Log Center 400 MHz Span 120 kHz Total Power Ref 34.32 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 -> 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>20.57</td><td>(-11.39)</td><td>-700.0</td><td>24.11</td><td>(-7.85)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.98</td><td>(-2.23)</td><td>-12.40 k</td><td>-40.19</td><td>(-3.98)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.11</td><td>(-20.11)</td><td>-13.25 k</td><td>-40.02</td><td>(-20.02)</td><td>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><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></table> MSO File <Temp.png> saved	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	20.57	(-11.39)	-700.0	24.11	(-7.85)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.98	(-2.23)	-12.40 k	-40.19	(-3.98)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.11	(-20.11)	-13.25 k	-40.02	(-20.02)	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	—	(—)	—	—	(—)	—	Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE-PULSE ALIGN OFF 03:43:24 PM Dec 04, 2020 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 25.0 16.0 6.00 4.00 14.0 24.0 44.0 54.0 Center 406 MHz Span 120 kHz Total Power Ref 30.98 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 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>29.95</td><td>(-1.99)</td><td>0.0</td><td>30.95</td><td>(-0.99)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.27</td><td>(-5.95)</td><td>-12.20 k</td><td>-41.68</td><td>(-3.64)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.19</td><td>(-24.19)</td><td>-13.30 k</td><td>-41.65</td><td>(-21.65)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSQ File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man 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	29.95	(-1.99)	0.0	30.95	(-0.99)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.27	(-5.95)	-12.20 k	-41.68	(-3.64)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.19	(-24.19)	-13.30 k	-41.65	(-21.65)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE-PULSE ALIGN OFF 03:44:01 PM Dec 04, 2020 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 25.0 16.0 6.00 4.00 14.0 24.0 44.0 54.0 Center 406 MHz Span 120 kHz Total Power Ref 33.96 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 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>21.83</td><td>(-10.11)</td><td>-400.0</td><td>25.96</td><td>(-5.98)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.22</td><td>(-3.08)</td><td>-12.45 k</td><td>-43.94</td><td>(-5.53)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.02</td><td>(-21.02)</td><td>-14.05 k</td><td>-40.12</td><td>(-20.12)</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></table> MSQ File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man 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	21.83	(-10.11)	-400.0	25.96	(-5.98)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.22	(-3.08)	-12.45 k	-43.94	(-5.53)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.02	(-21.02)	-14.05 k	-40.12	(-20.12)	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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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE-PULSE ALIGN OFF 03:47:55 PM Dec 04, 2020 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 25.0 16.0 6.00 4.00 14.0 24.0 44.0 54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 30.93 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 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>10.89</td><td>(-21.03)</td><td>0.0</td><td>30.88</td><td>(-1.03)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-49.17</td><td>(-10.38)</td><td>-12.40 k</td><td>-46.80</td><td>(-7.28)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.25</td><td>(-23.25)</td><td>-13.25 k</td><td>-42.36</td><td>(-22.36)</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></table> MSQ File <MASK D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man 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	10.89	(-21.03)	0.0	30.88	(-1.03)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-49.17	(-10.38)	-12.40 k	-46.80	(-7.28)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.25	(-23.25)	-13.25 k	-42.36	(-22.36)	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	—	(—)	—	—	(—)	—	
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																								
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Appendix C:Emission Mask

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Spectrum Emission Mask Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log Center 443 MHz Span 120 kHz Total Power Ref 31.02 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 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>20.05</td><td>(-12.21)</td><td>0.0</td><td>30.94</td><td>(-1.33)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.00</td><td>(-10.10)</td><td>-11.50 k</td><td>-47.49</td><td>(-8.32)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.53</td><td>(-21.53)</td><td>-14.85 k</td><td>-41.02</td><td>(-21.02)</td><td>15.00 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> MSO File <MASK D.state> recalled Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log Center 443 MHz Span 120 kHz Total Power Ref 34.22 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>21.09</td><td>(-11.17)</td><td>-950.0</td><td>22.86</td><td>(-9.41)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.66</td><td>(-3.94)</td><td>-12.30 k</td><td>-39.25</td><td>(-3.35)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.09</td><td>(-21.09)</td><td>-15.25 k</td><td>-37.34</td><td>(-17.34)</td><td>12.55 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 <Temp.png> saved Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz </td></tr></td></tr>	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	20.26	(-11.65)	-500.0	23.69	(-8.23)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.27	(-4.12)	-12.45 k	-42.03	(-2.51)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.82	(-21.82)	-13.85 k	-40.74	(-20.74)	14.25 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-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log Center 443 MHz Span 120 kHz Total Power Ref 31.02 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 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>20.05</td><td>(-12.21)</td><td>0.0</td><td>30.94</td><td>(-1.33)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.00</td><td>(-10.10)</td><td>-11.50 k</td><td>-47.49</td><td>(-8.32)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.53</td><td>(-21.53)</td><td>-14.85 k</td><td>-41.02</td><td>(-21.02)</td><td>15.00 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> MSO File <MASK D.state> recalled Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run #Atten: 40 dB Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log Center 480 MHz Span 120 kHz Total Power Ref 31.83 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>22.70</td><td>(-9.94)</td><td>0.0</td><td>31.61</td><td>(-1.03)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.44</td><td>(-6.01)</td><td>-12.45 k</td><td>-39.34</td><td>(-7.81)</td><td>11.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.78</td><td>(-21.78)</td><td>-17.05 k</td><td>-41.90</td><td>(-21.90)</td><td>17.20 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> MSQ File <MASK D.state> recalled Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Man 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	22.70	(-9.94)	0.0	31.61	(-1.03)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.44	(-6.01)	-12.45 k	-39.34	(-7.81)	11.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.78	(-21.78)	-17.05 k	-41.90	(-21.90)	17.20 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	—	(—)	—	—	(—)	—																																																										
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log Center 480 MHz Span 120 kHz Total Power Ref 35.19 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>21.00</td><td>(-11.64)</td><td>-50.00</td><td>24.16</td><td>(-8.48)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.48</td><td>(-2.05)</td><td>-12.45 k</td><td>-42.00</td><td>(-3.20)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.30</td><td>(-20.30)</td><td>-14.20 k</td><td>-40.12</td><td>(-20.12)</td><td>14.55 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> MSQ File <Temp.png> saved Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Man 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	21.00	(-11.64)	-50.00	24.16	(-8.48)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.48	(-2.05)	-12.45 k	-42.00	(-3.20)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.30	(-20.30)	-14.20 k	-40.12	(-20.12)	14.55 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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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log Center 400 MHz Span 120 kHz Total Power Ref 31.89 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>18.96</td><td>(-13.83)</td><td>0.0</td><td>31.85</td><td>(-0.94)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.70</td><td>(-4.05)</td><td>-12.50 k</td><td>-43.85</td><td>(-6.66)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.10</td><td>(-20.10)</td><td>-13.15 k</td><td>-40.10</td><td>(-20.10)</td><td>13.35 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> MSQ File <MASK D.state> recalled Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man 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	18.96	(-13.83)	0.0	31.85	(-0.94)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.70	(-4.05)	-12.50 k	-43.85	(-6.66)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.10	(-20.10)	-13.15 k	-40.10	(-20.10)	13.35 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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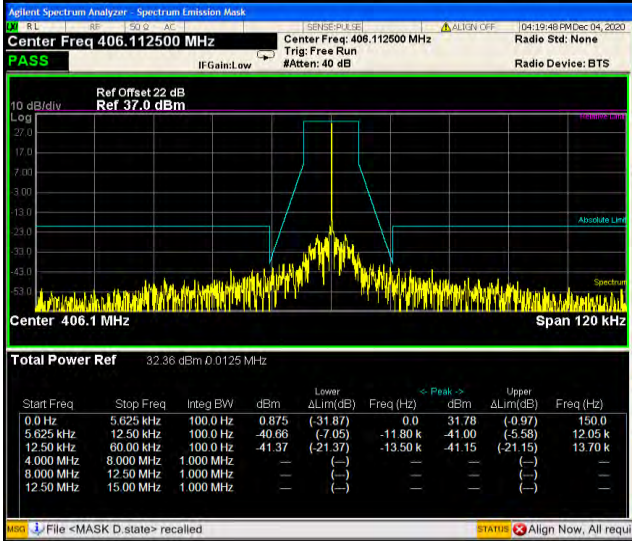
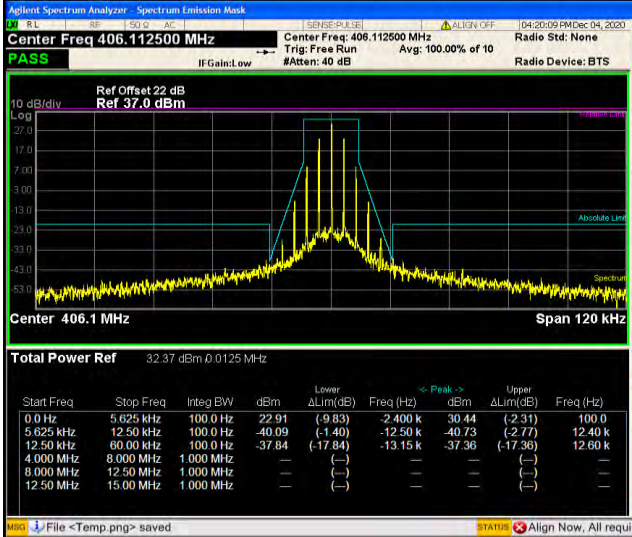
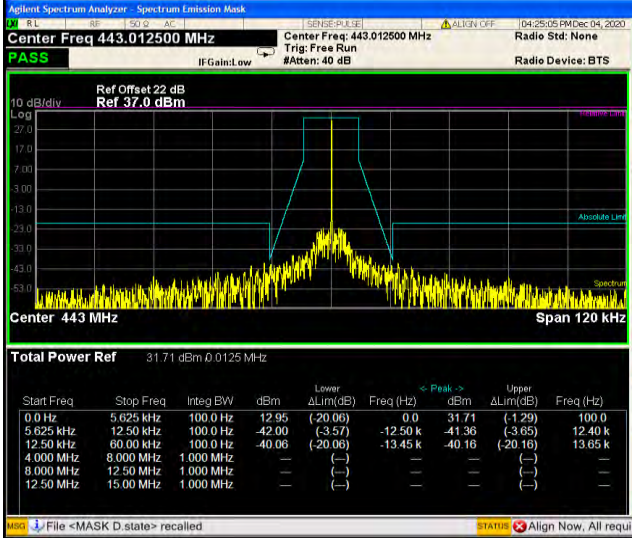


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _L		Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-ANH	FM	CH _{M1}		Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-ANH	FM	CH _{M1}		Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz

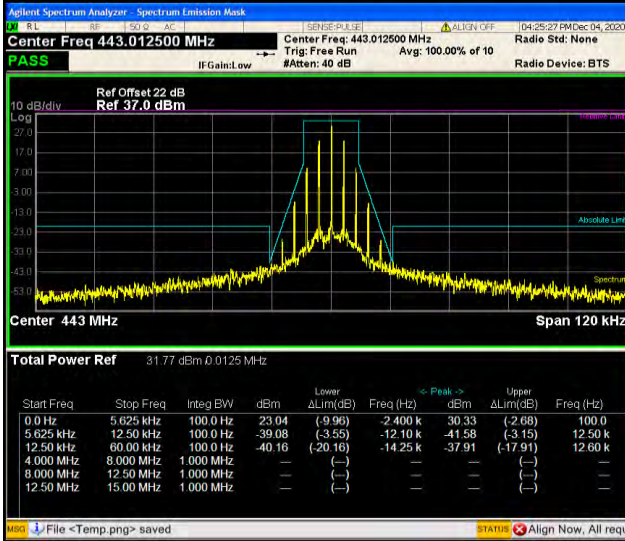
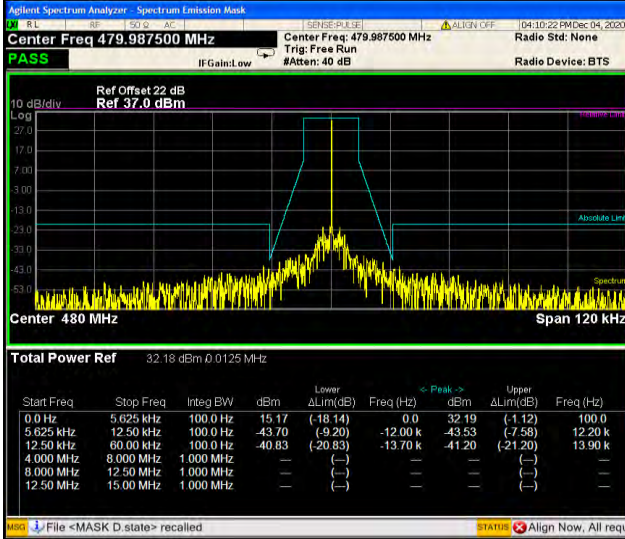
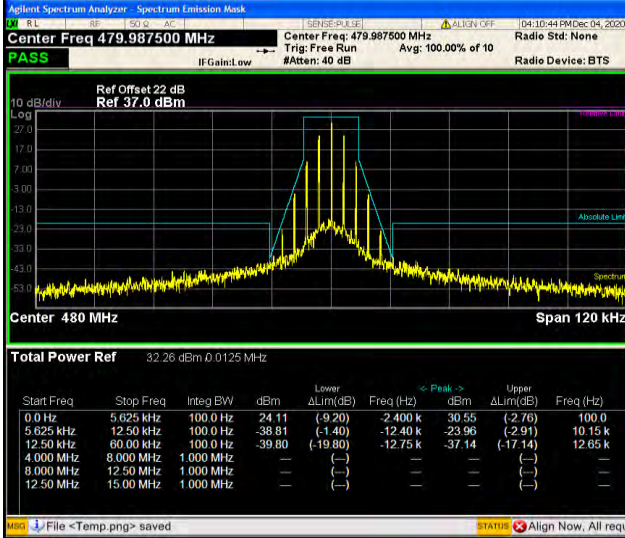


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _{M2}		Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
			Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm IF Gain: Low Auto STATUS Align Now, All required	
			Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) Peak dBm Upper ΔLim(dB) Freq (Hz)	
TX-ANH	FM	CH _{M2}		Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
			Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm IF Gain: Low Auto STATUS Align Now, All required	
			Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) Peak dBm Upper ΔLim(dB) Freq (Hz)	
TX-ANH	FM	CH _{M3}		Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
			Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm IF Gain: Low Auto STATUS Align Now, All required	
			Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) Peak dBm Upper ΔLim(dB) Freq (Hz)	

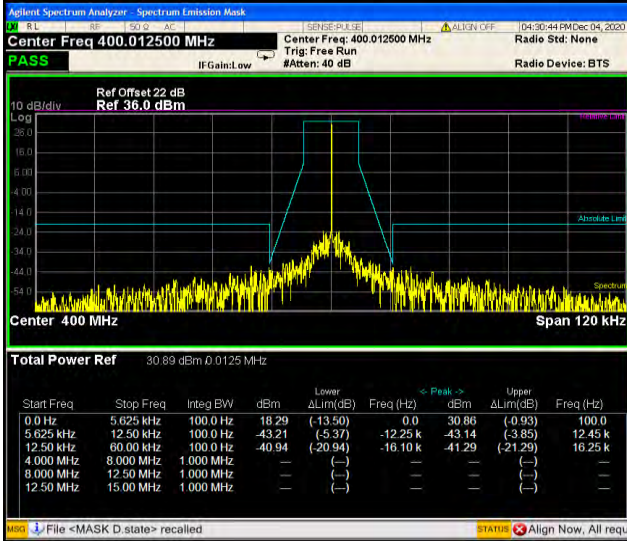
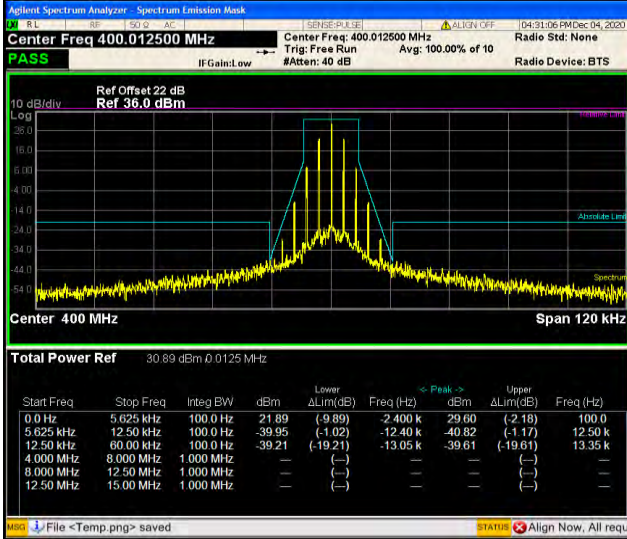
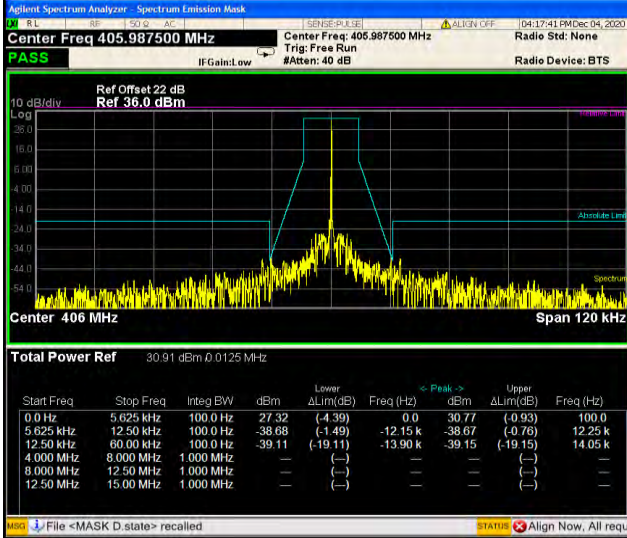


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-ANH	FM	CH _{M3}	 <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 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>23.04</td><td>(-9.96)</td><td>-2.400 k</td><td>30.33</td><td>(-2.68)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.08</td><td>(-3.55)</td><td>-12.10 k</td><td>-41.58</td><td>(-3.15)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.16</td><td>(-20.16)</td><td>-14.25 k</td><td>-37.91</td><td>(-17.91)</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></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	23.04	(-9.96)	-2.400 k	30.33	(-2.68)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.08	(-3.55)	-12.10 k	-41.58	(-3.15)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.16	(-20.16)	-14.25 k	-37.91	(-17.91)	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	—	(—)	—	—	(—)	—	Frequency Center Freq 443.012500 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)																																																								
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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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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
TX-ANH	FM	CH _H	 <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 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>24.11</td><td>(-9.20)</td><td>-2.400 k</td><td>30.55</td><td>(-2.76)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.81</td><td>(-1.40)</td><td>-12.40 k</td><td>-23.96</td><td>(-2.91)</td><td>10.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.80</td><td>(-19.80)</td><td>-12.75 k</td><td>-37.14</td><td>(-17.14)</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></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></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	24.11	(-9.20)	-2.400 k	30.55	(-2.76)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.81	(-1.40)	-12.40 k	-23.96	(-2.91)	10.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.80	(-19.80)	-12.75 k	-37.14	(-17.14)	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	—	(—)	—	—	(—)	—	Frequency Center Freq 479.987500 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)																																																								
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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 _L		Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz
				Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz
				Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:18:02 PM Dec 04, 2020 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 35.0 18.0 6.00 14.0 24.0 44.0 54.0 Center 406 MHz Span 120 kHz Total Power Ref 31.31 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 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>23.98</td><td>(-7.72)</td><td>0.0</td><td>29.42</td><td>(-2.28)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.82</td><td>(-2.45)</td><td>-12.45 k</td><td>-40.18</td><td>(-0.45)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.86</td><td>(-18.86)</td><td>-14.05 k</td><td>-40.29</td><td>(-20.29)</td><td>12.75 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></table> File <Temp.png> saved STATUS Align Now, All required 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 dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.98	(-7.72)	0.0	29.42	(-2.28)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.82	(-2.45)	-12.45 k	-40.18	(-0.45)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.86	(-18.86)	-14.05 k	-40.29	(-20.29)	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	—	(—)	—	—	(—)	—
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	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:23:18 PM Dec 04, 2020 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 35.0 18.0 6.00 14.0 24.0 44.0 54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 31.27 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 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>0.033</td><td>(-31.63)</td><td>0.0</td><td>30.69</td><td>(-0.97)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.07</td><td>(-6.11)</td><td>-12.25 k</td><td>-44.57</td><td>(-4.79)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.68</td><td>(-22.68)</td><td>-14.05 k</td><td>-43.01</td><td>(-23.01)</td><td>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><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></table> File <MASK.D.state> recalled STATUS Align Now, All required 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	0.033	(-31.63)	0.0	30.69	(-0.97)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.07	(-6.11)	-12.25 k	-44.57	(-4.79)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.68	(-22.68)	-14.05 k	-43.01	(-23.01)	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	—	(—)	—	—	(—)	—
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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:23:40 PM Dec 04, 2020 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 35.0 18.0 6.00 14.0 24.0 44.0 54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 31.24 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 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>21.83</td><td>(-9.83)</td><td>-2.400 k</td><td>29.36</td><td>(-2.30)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.71</td><td>(-2.93)</td><td>-12.50 k</td><td>-40.99</td><td>(-4.12)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.77</td><td>(-20.77)</td><td>-12.95 k</td><td>-40.37</td><td>(-20.37)</td><td>13.35 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></table> File <Temp.png> saved STATUS Align Now, All required 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	21.83	(-9.83)	-2.400 k	29.36	(-2.30)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.71	(-2.93)	-12.50 k	-40.99	(-4.12)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.77	(-20.77)	-12.95 k	-40.37	(-20.37)	13.35 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	—	(—)	—	—	(—)	—
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 kHz	60.00 kHz	100.0 Hz	-40.77	(-20.77)	-12.95 k	-40.37	(-20.37)	13.35 k																																																										
4.000 MHz	8.000 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 RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:27:07 PM Dec 04, 2020 Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 35.0 18.0 6.00 14.0 24.0 44.0 54.0 Center 443 MHz Span 120 kHz Total Power Ref 30.82 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 > 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>11.75</td><td>(-20.39)</td><td>0.0</td><td>30.83</td><td>(-1.31)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.12</td><td>(-5.82)</td><td>-12.50 k</td><td>-46.61</td><td>(-7.31)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.49</td><td>(-20.49)</td><td>-14.10 k</td><td>-40.53</td><td>(-20.53)</td><td>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><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></table> File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man 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	11.75	(-20.39)	0.0	30.83	(-1.31)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.12	(-5.82)	-12.50 k	-46.61	(-7.31)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.49	(-20.49)	-14.10 k	-40.53	(-20.53)	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	—	(—)	—	—	(—)	—	
			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	—	(—)	—	—	(—)	—																																																											
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:27:29 PM Dec 04, 2020 Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 35.0 18.0 6.00 14.0 24.0 44.0 54.0 Center 443 MHz Span 120 kHz Total Power Ref 31.30 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 > 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>22.13</td><td>(-10.00)</td><td>-2.400 k</td><td>29.45</td><td>(-2.69)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.16</td><td>(-1.04)</td><td>-12.20 k</td><td>-41.09</td><td>(-3.24)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.01</td><td>(-20.01)</td><td>-13.35 k</td><td>-39.61</td><td>(-19.61)</td><td>13.20 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></table> File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man 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	22.13	(-10.00)	-2.400 k	29.45	(-2.69)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.16	(-1.04)	-12.20 k	-41.09	(-3.24)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.01	(-20.01)	-13.35 k	-39.61	(-19.61)	13.20 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	—	(—)	—	—	(—)	—																																																											
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:34:05 PM Dec 04, 2020 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 35.0 18.0 6.00 14.0 24.0 44.0 54.0 Center 480 MHz Span 120 kHz Total Power Ref 31.50 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 > 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>9.935</td><td>(-22.54)</td><td>0.0</td><td>31.51</td><td>(-0.97)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.45</td><td>(-2.22)</td><td>-12.40 k</td><td>-42.22</td><td>(-3.25)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.17</td><td>(-23.17)</td><td>-13.15 k</td><td>-43.34</td><td>(-23.34)</td><td>13.35 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></table> File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Man 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	9.935	(-22.54)	0.0	31.51	(-0.97)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.45	(-2.22)	-12.40 k	-42.22	(-3.25)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.17	(-23.17)	-13.15 k	-43.34	(-23.34)	13.35 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	—	(—)	—	—	(—)	—	
			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	9.935	(-22.54)	0.0	31.51	(-0.97)	100.0																																																								
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12.50 kHz	60.00 kHz	100.0 Hz	-43.17	(-23.17)	-13.15 k	-43.34	(-23.34)	13.35 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	—	(—)	—	—	(—)	—																																																											



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF50.0ACSENSE-PULSEALIGN OFF04:14:26 PM Dec 04, 2020 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 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 35.0 18.0 6.00 4.00 14.0 24.0 34.0 44.0 54.0 Center 480 MHz Span 120 kHz Total Power Ref 31.95 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>Peak Freq (Hz)</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>23.35</td><td>(-9.12)</td><td>-2.350 k</td><td>29.85</td><td>(-2.62)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.50</td><td>(-2.26)</td><td>-12.40 k</td><td>-39.76</td><td>(-1.89)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.45</td><td>(-20.45)</td><td>-13.65 k</td><td>-37.97</td><td>(-17.97)</td><td>13.30 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><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></table> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz File <Temp.png> saved Align Now, All required		Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.35	(-9.12)	-2.350 k	29.85	(-2.62)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.50	(-2.26)	-12.40 k	-39.76	(-1.89)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.45	(-20.45)	-13.65 k	-37.97	(-17.97)	13.30 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	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																								
			0.0 Hz	5.625 kHz	100.0 Hz	23.35	(-9.12)	-2.350 k	29.85	(-2.62)	150.0																																																								
5.625 kHz	12.50 kHz	100.0 Hz	-40.50	(-2.26)	-12.40 k	-39.76	(-1.89)	12.35 k																																																											
12.50 kHz	60.00 kHz	100.0 Hz	-40.45	(-20.45)	-13.65 k	-37.97	(-17.97)	13.30 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	—	(—)	—	—	(—)	—																																																											

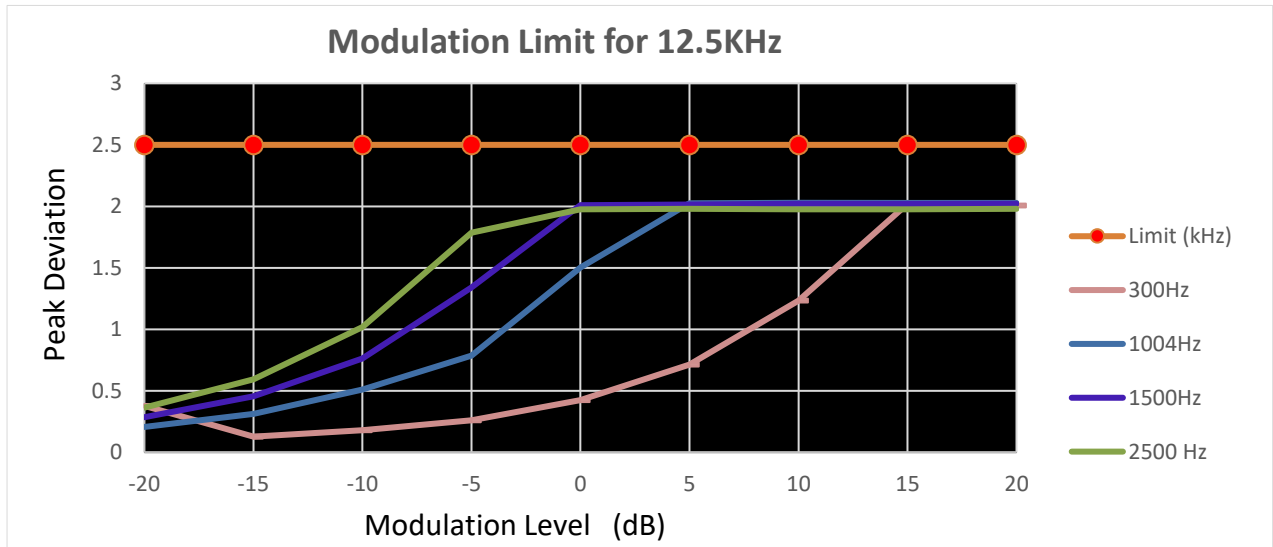
**Appendix D:Modulation Limit**

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	0.377	0.207	0.286	0.364	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.128	0.312	0.455	0.593	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.180	0.511	0.764	1.019	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.262	0.787	1.341	1.787	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.424	1.501	2.009	1.977	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.714	2.024	2.015	1.980	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.235	2.029	2.021	1.977	2.5	PASS
TX-ANH	FM	CH _{M2}	15	2.020	2.027	2.020	1.977	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.007	2.028	2.021	1.980	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



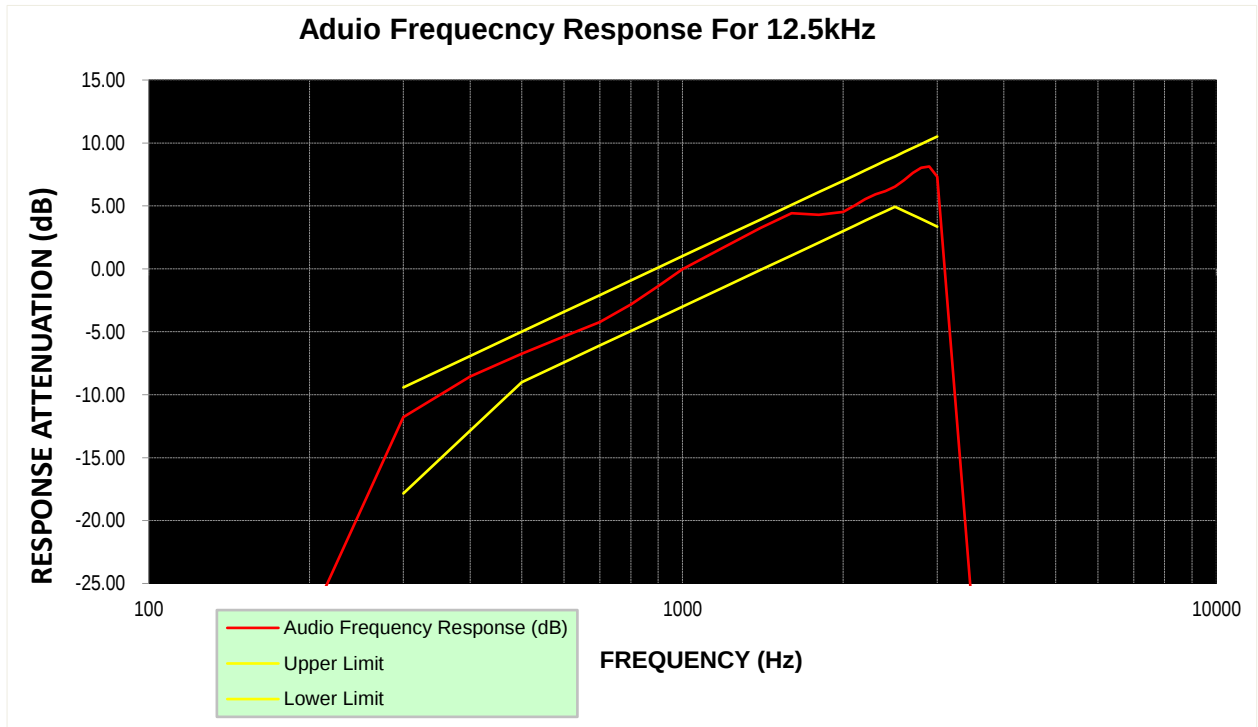
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-28.17			PASS
TX-ANH	FM	CH _{M2}	200	-28.09			PASS
TX-ANH	FM	CH _{M2}	300	-11.77	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.55	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.76	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.38	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-4.22	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.83	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.37	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.75	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.24	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.42	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.30	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	4.53	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.04	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.54	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.91	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	6.18	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	6.54	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	7.04	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.62	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.03	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	8.13	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.33	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-27.93			PASS
TX-ANH	FM	CH _{M2}	4000	-28.09			PASS
TX-ANH	FM	CH _{M2}	4500	-27.97			PASS
TX-ANH	FM	CH _{M2}	5000	-28.08			PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT



**Appendix F:Frequency Stability Test & Temperature**

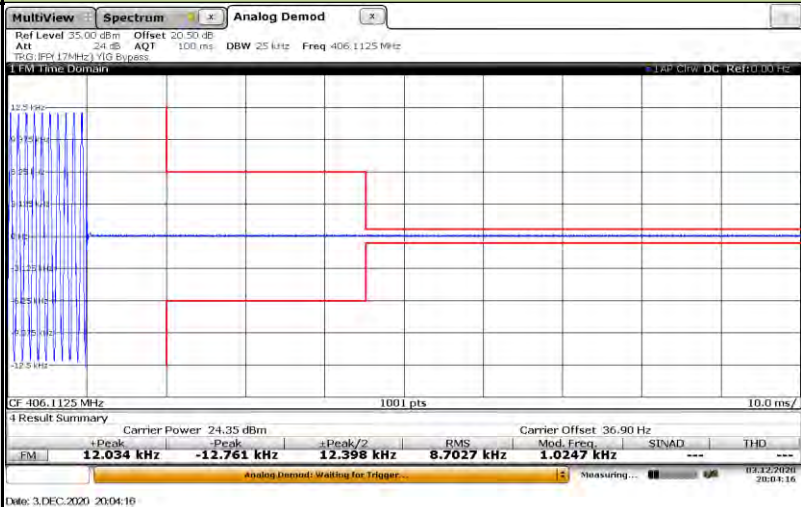
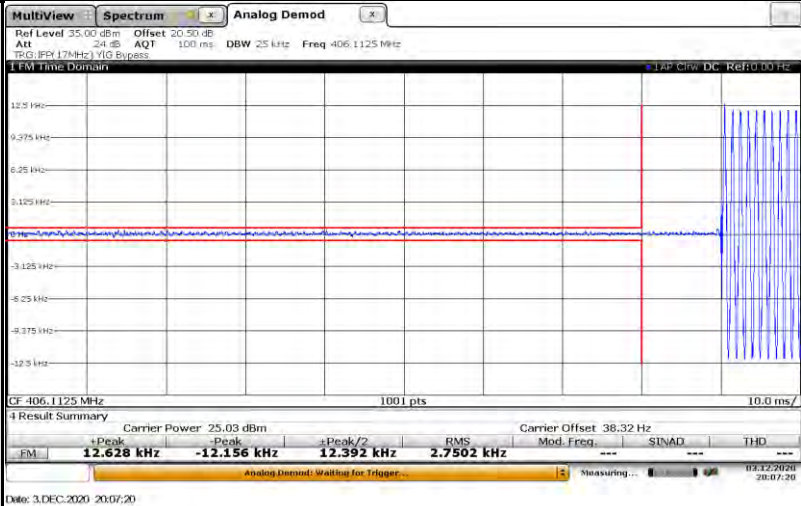
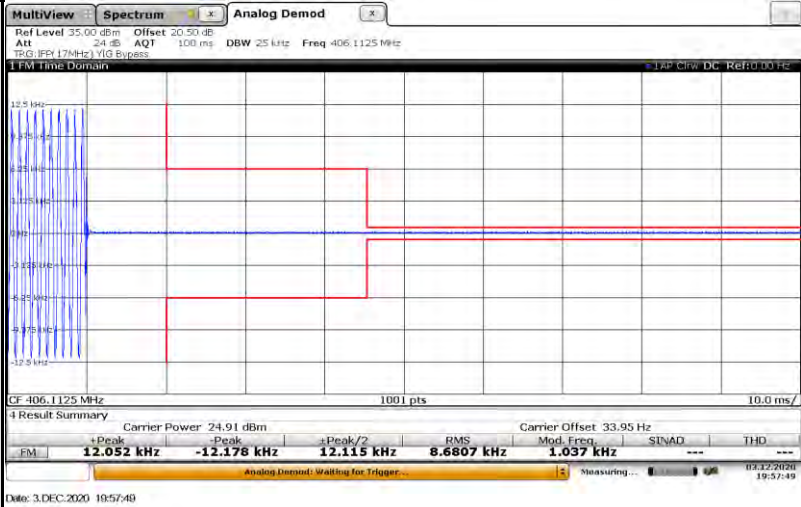
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	0.071	0.078	0.088	0.090	0.081	±2.5	PASS
TX-DNH	4FSK	V _N	-20	0.073	0.078	0.090	0.090	0.087	±2.5	PASS
TX-DNH	4FSK	V _N	-10	0.073	0.076	0.085	0.089	0.086	±2.5	PASS
TX-DNH	4FSK	V _N	0	0.073	0.080	0.088	0.092	0.085	±2.5	PASS
TX-DNH	4FSK	V _N	10	0.069	0.074	0.090	0.091	0.085	±2.5	PASS
TX-DNH	4FSK	V _N	20	0.067	0.074	0.084	0.089	0.079	±2.5	PASS
TX-DNH	4FSK	V _N	30	0.069	0.077	0.089	0.094	0.083	±2.5	PASS
TX-DNH	4FSK	V _N	40	0.071	0.075	0.087	0.096	0.086	±2.5	PASS
TX-DNH	4FSK	V _N	50	0.070	0.075	0.092	0.092	0.079	±2.5	PASS
TX-DNL	4FSK	V _N	-30	0.071	0.078	0.083	0.098	0.100	±2.5	PASS
TX-DNL	4FSK	V _N	-20	0.076	0.080	0.086	0.091	0.103	±2.5	PASS
TX-DNL	4FSK	V _N	-10	0.077	0.081	0.082	0.094	0.098	±2.5	PASS
TX-DNL	4FSK	V _N	0	0.077	0.077	0.082	0.097	0.103	±2.5	PASS
TX-DNL	4FSK	V _N	10	0.075	0.075	0.081	0.096	0.103	±2.5	PASS
TX-DNL	4FSK	V _N	20	0.070	0.074	0.080	0.091	0.094	±2.5	PASS
TX-DNL	4FSK	V _N	30	0.077	0.075	0.080	0.092	0.102	±2.5	PASS
TX-DNL	4FSK	V _N	40	0.071	0.079	0.085	0.096	0.101	±2.5	PASS
TX-DNL	4FSK	V _N	50	0.072	0.077	0.084	0.095	0.103	±2.5	PASS
TX-ANH	FM	V _N	-30	0.716	0.574	0.576	0.606	0.481	±2.5	PASS
TX-ANH	FM	V _N	-20	0.700	0.603	0.629	0.593	0.485	±2.5	PASS
TX-ANH	FM	V _N	-10	0.735	0.587	0.600	0.622	0.493	±2.5	PASS
TX-ANH	FM	V _N	0	0.699	0.618	0.619	0.574	0.499	±2.5	PASS
TX-ANH	FM	V _N	10	0.732	0.617	0.583	0.614	0.485	±2.5	PASS
TX-ANH	FM	V _N	20	0.675	0.569	0.573	0.572	0.454	±2.5	PASS
TX-ANH	FM	V _N	30	0.677	0.588	0.611	0.621	0.493	±2.5	PASS
TX-ANH	FM	V _N	40	0.716	0.569	0.600	0.593	0.489	±2.5	PASS
TX-ANH	FM	V _N	50	0.726	0.574	0.602	0.582	0.494	±2.5	PASS
TX-ANL	FM	V _N	-30	0.727	0.592	0.602	0.599	0.498	±2.5	PASS
TX-ANL	FM	V _N	-20	0.753	0.599	0.560	0.591	0.525	±2.5	PASS
TX-ANL	FM	V _N	-10	0.702	0.624	0.565	0.606	0.489	±2.5	PASS
TX-ANL	FM	V _N	0	0.734	0.606	0.595	0.601	0.511	±2.5	PASS
TX-ANL	FM	V _N	10	0.759	0.600	0.586	0.629	0.483	±2.5	PASS
TX-ANL	FM	V _N	20	0.695	0.586	0.557	0.587	0.477	±2.5	PASS
TX-ANL	FM	V _N	30	0.733	0.590	0.593	0.592	0.512	±2.5	PASS
TX-ANL	FM	V _N	40	0.760	0.639	0.598	0.596	0.487	±2.5	PASS
TX-ANL	FM	V _N	50	0.742	0.605	0.573	0.639	0.522	±2.5	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	0.067	0.074	0.084	0.089	0.079	±2.5	PASS
TX-DNH	4FSK	V _L	T _N	0.068	0.075	0.084	0.091	0.080	±2.5	PASS
TX-DNH	4FSK	V _H	T _N	0.071	0.077	0.086	0.090	0.083	±2.5	PASS
TX-DNL	4FSK	V _N	T _N	0.070	0.074	0.080	0.091	0.094	±2.5	PASS
TX-DNL	4FSK	V _L	T _N	0.071	0.075	0.080	0.091	0.096	±2.5	PASS
TX-DNL	4FSK	V _H	T _N	0.073	0.075	0.081	0.094	0.098	±2.5	PASS
TX-ANH	FM	V _N	T _N	0.675	0.569	0.573	0.572	0.454	±2.5	PASS
TX-ANH	FM	V _L	T _N	0.676	0.569	0.578	0.575	0.458	±2.5	PASS
TX-ANH	FM	V _H	T _N	0.693	0.592	0.577	0.593	0.466	±2.5	PASS
TX-ANL	FM	V _N	T _N	0.695	0.586	0.557	0.587	0.477	±2.5	PASS
TX-ANL	FM	V _L	T _N	0.698	0.589	0.557	0.593	0.478	±2.5	PASS
TX-ANL	FM	V _H	T _N	0.702	0.598	0.577	0.595	0.484	±2.5	PASS

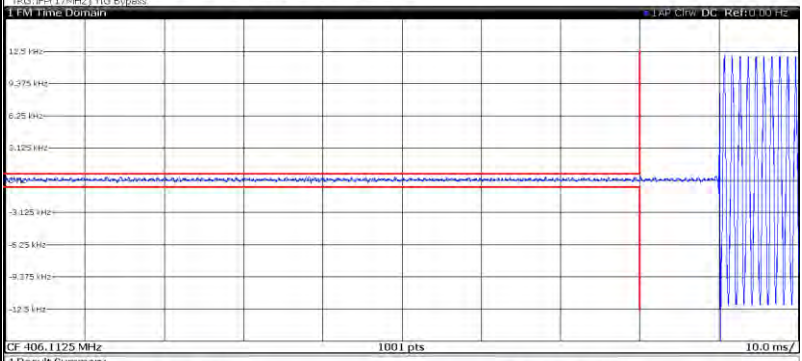


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	 MultiView Spectrum Analog Demod Ref Level 35.00 dBm Offset 20.50 dB Att -24 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: IFX (17MHz) VIG Bypass CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 24.35 dBm Carrier Offset 36.90 Hz Mod. Freq. 1.0247 kHz FM 12.034 kHz -12.761 kHz 12.398 kHz 8.7027 kHz Analog Demod: Waiting for Trigger... Date: 3.DEC.2020 20:04:16 OFF~ON
TX-DNH	4FSK	CH _{M2}	 MultiView Spectrum Analog Demod Ref Level 35.00 dBm Offset 20.50 dB Att -24 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: IFX (17MHz) VIG Bypass CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 25.03 dBm Carrier Offset 38.32 Hz Mod. Freq. 2.7502 kHz FM 12.628 kHz -12.156 kHz 12.392 kHz 2.7502 kHz Analog Demod: Waiting for Trigger... Date: 3.DEC.2020 20:07:20 ON-OFF
TX-ANH	FM	CH _{M2}	 MultiView Spectrum Analog Demod Ref Level 35.00 dBm Offset 20.50 dB Att -24 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: IFX (17MHz) VIG Bypass CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 24.91 dBm Carrier Offset 33.95 Hz Mod. Freq. 1.037 kHz FM 12.052 kHz -12.178 kHz 12.115 kHz 8.6807 kHz Analog Demod: Waiting for Trigger... Date: 3.DEC.2020 19:57:49 OFF~ON



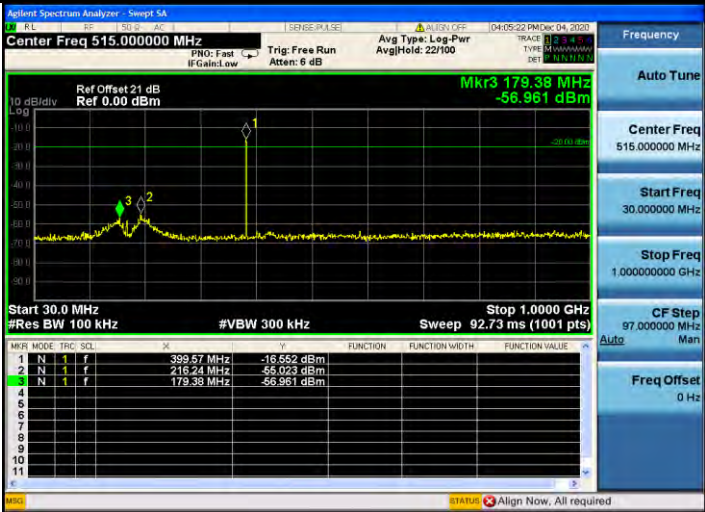
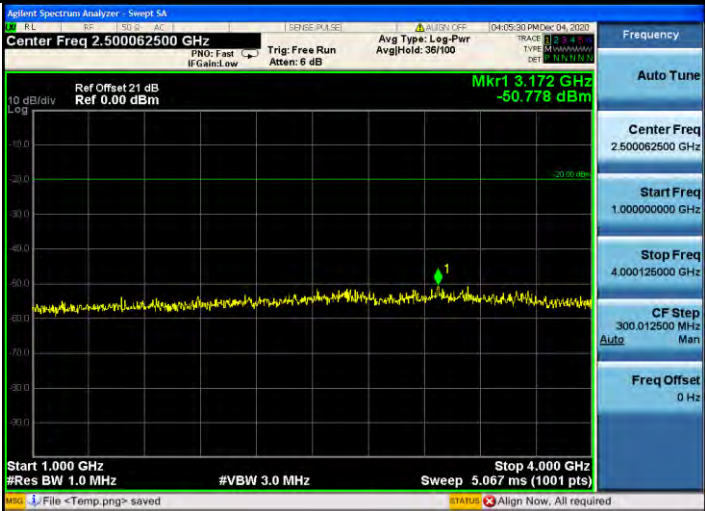
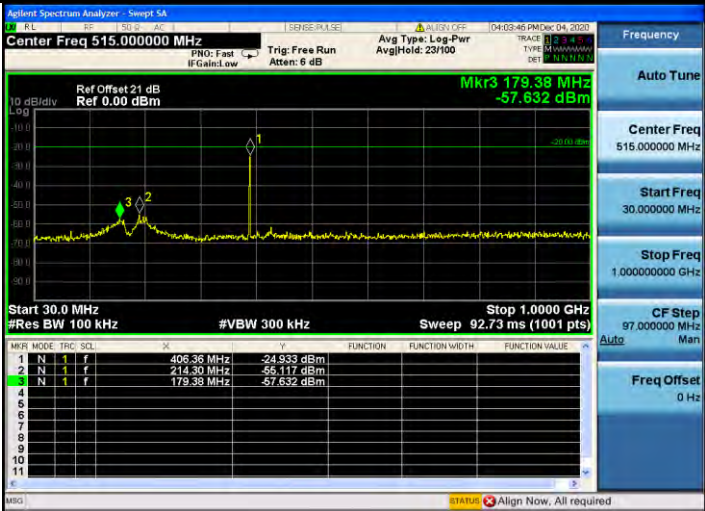
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 35.00 dBm Offset 20.50 dB Att -24 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: RFEN (17MHz) VLG Express 1 FM Time Domain  CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td>Carrier Power</td><td>24.45 dBm</td><td>Carrier Offset</td><td>38.08 Hz</td></tr><tr><td>FM</td><td>12.199 kHz</td><td>-16.664 kHz</td><td>14.432 kHz</td></tr><tr><td></td><td></td><td>2.7527 kHz</td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 03.12.2020 20:06:08	Carrier Power	24.45 dBm	Carrier Offset	38.08 Hz	FM	12.199 kHz	-16.664 kHz	14.432 kHz			2.7527 kHz	
Carrier Power	24.45 dBm	Carrier Offset	38.08 Hz												
FM	12.199 kHz	-16.664 kHz	14.432 kHz												
		2.7527 kHz													

ON-OFF



Appendix I:Spurious Emission On Antenna Port

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 _{M1}	 30MHz~1GHz

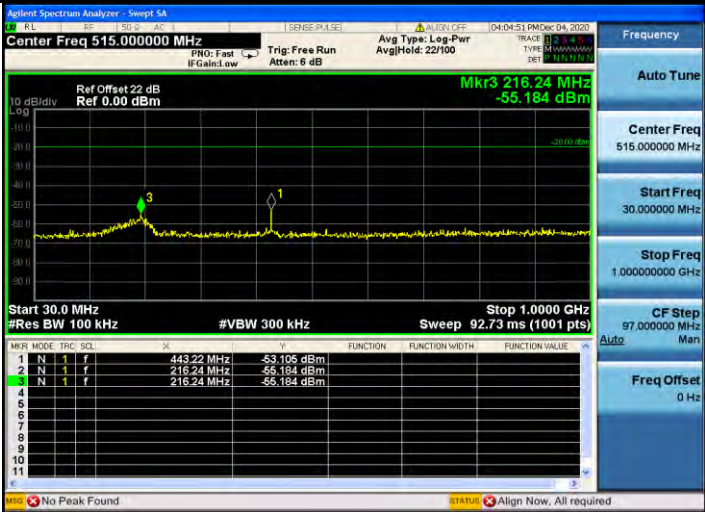
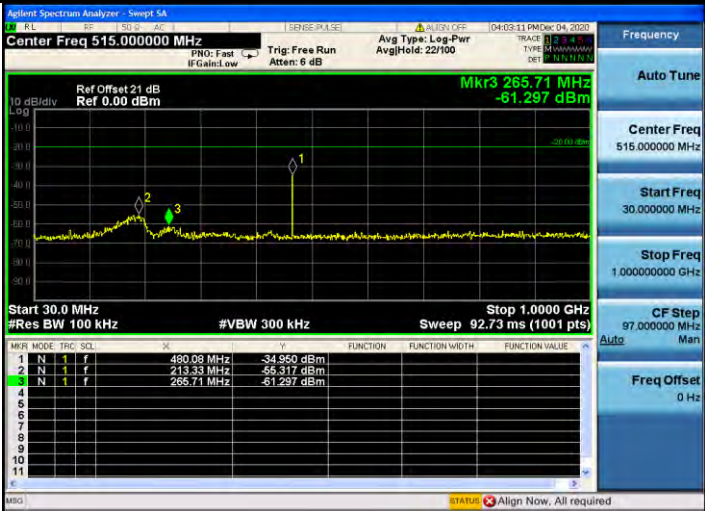


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.529937500 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 3.154 GHz -51.238 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.060 GHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																																																																																												
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 220.12 MHz -55.709 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) File <Temp.png> saved 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 <table><tr><th>MARK</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>F</th><th>F</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></td><td></td><td></td><td></td><td>406.36 MHz -55.174 dBm</td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td></td><td></td><td></td><td></td><td>187.14 MHz -55.640 dBm</td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td></td><td></td><td></td><td></td><td>220.12 MHz -55.709 dBm</td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MARK	MODE	TRIG	SCL	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f					406.36 MHz -55.174 dBm	2	N	1	f					187.14 MHz -55.640 dBm	3	N	1	f					220.12 MHz -55.709 dBm	4									5									6									7									8									9									10									11								
MARK	MODE	TRIG	SCL	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																							
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.530562500 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 2.653 GHz -50.947 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.061 GHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																																																																																												

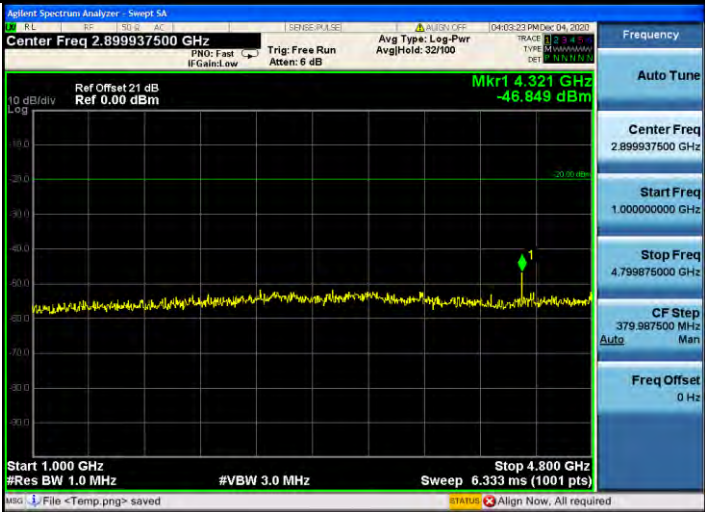
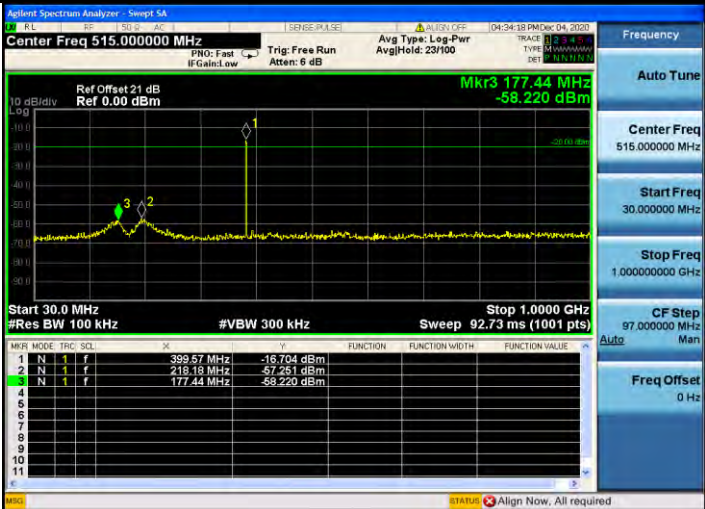
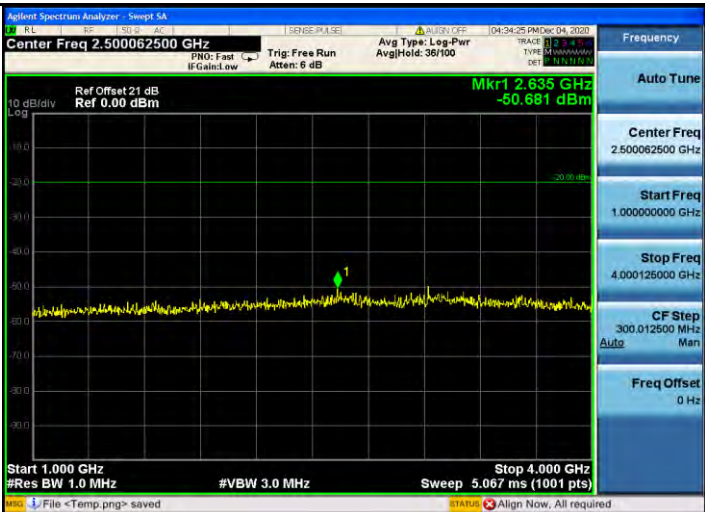


Appendix I:Spurious Emission On Antenna Port

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 _H	 30MHz~1GHz

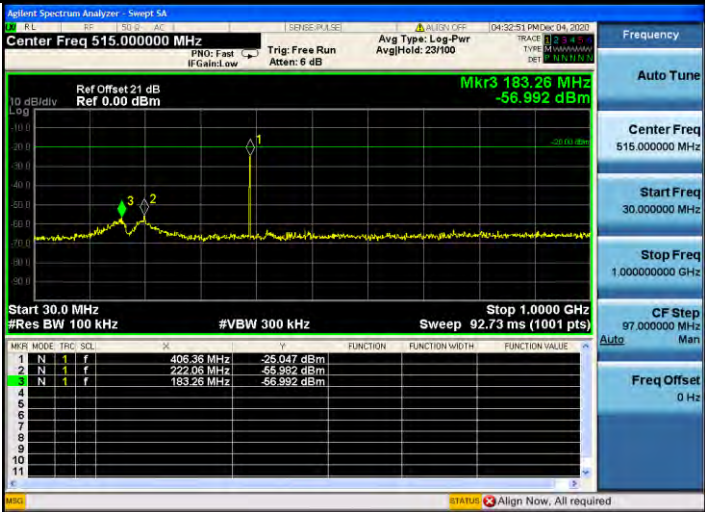
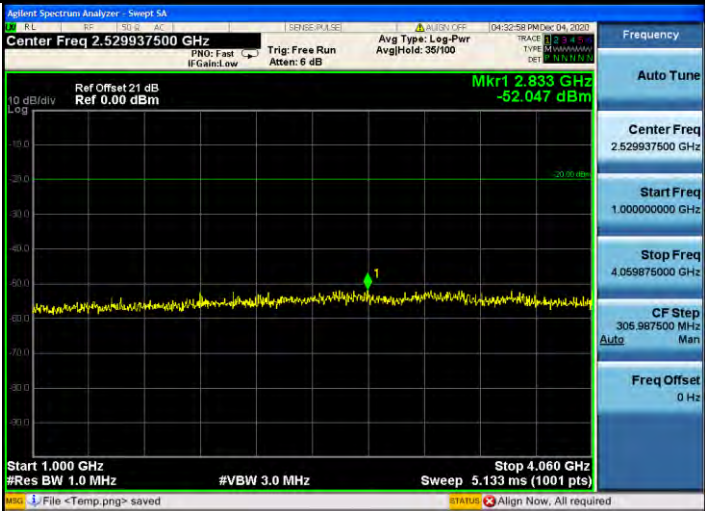
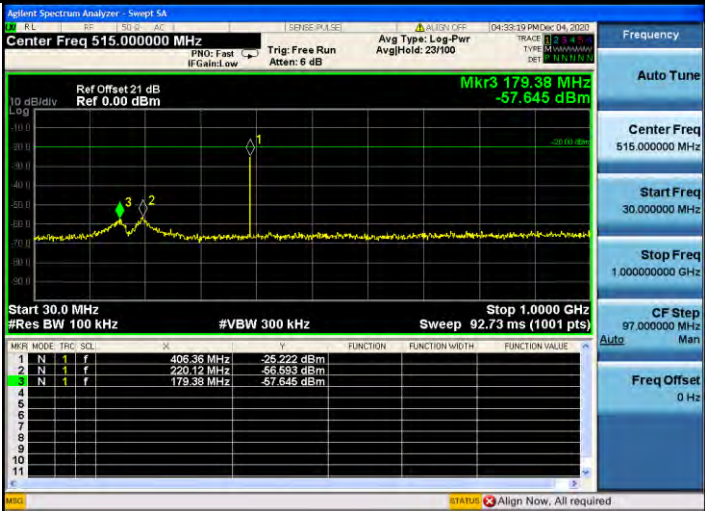


Appendix I:Spurious Emission On Antenna Port

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

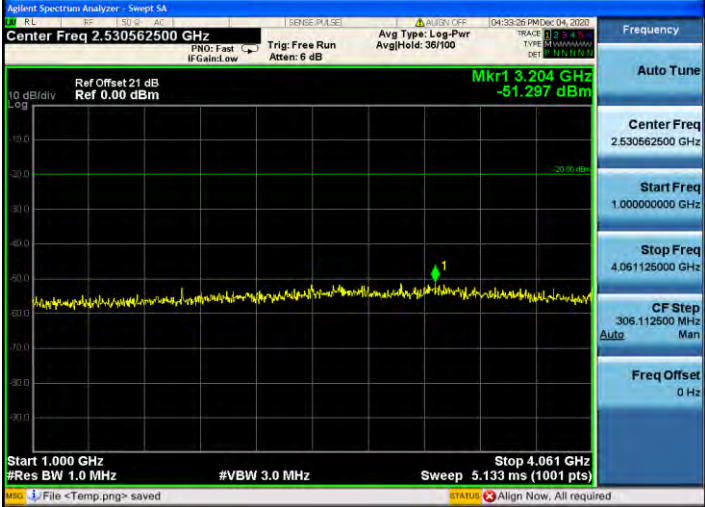
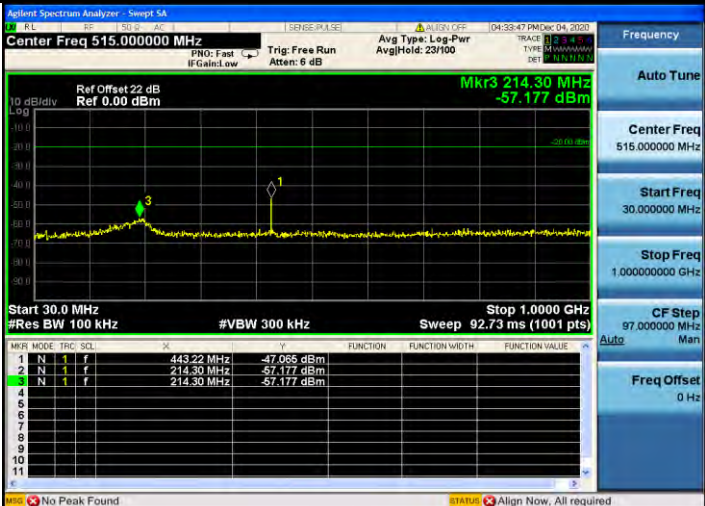


Appendix I:Spurious Emission On Antenna Port

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

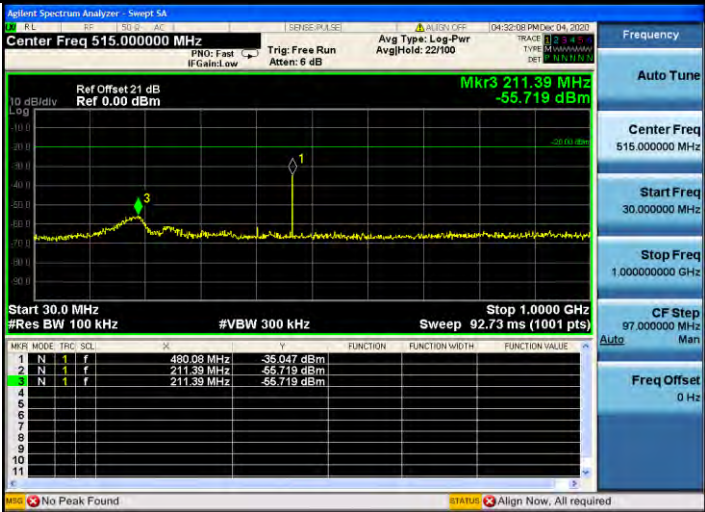
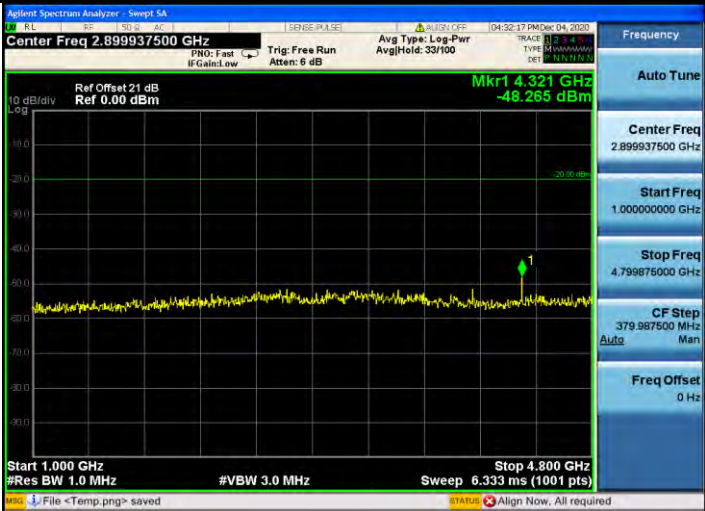


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 1GHz~10th Harmonic
TX-ANH	FM	CH _{M3}	 30MHz~1GHz
TX-ANH	FM	CH _{M3}	 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _H	 30MHz~1GHz
TX-ANH	FM	CH _H	 1GHz~10th Harmonic

----End of Report----