



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**

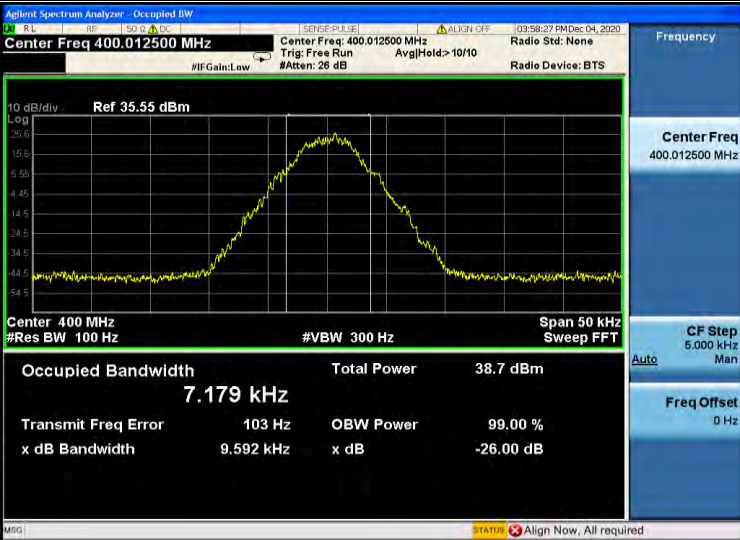
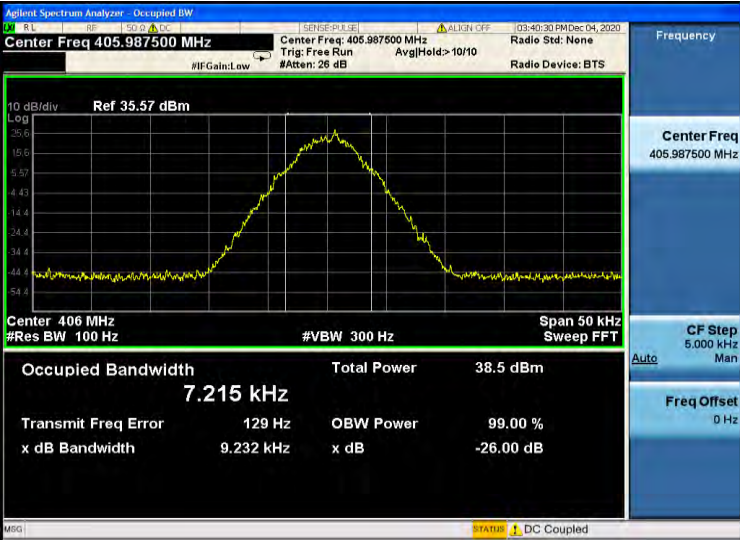
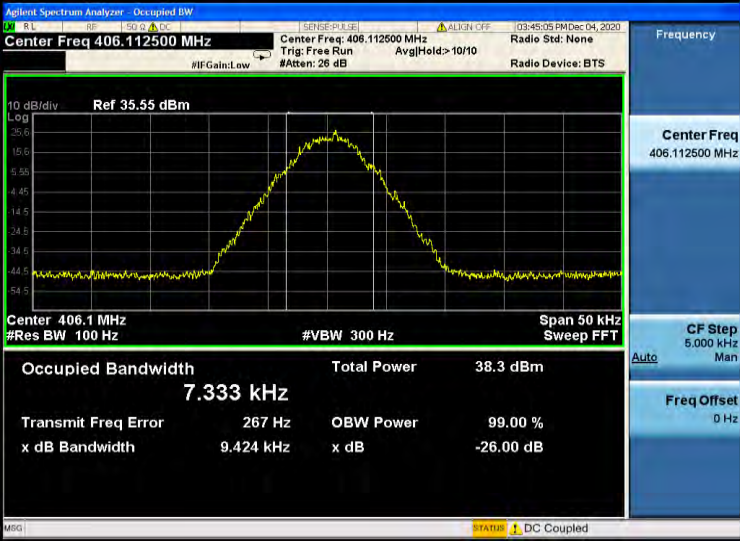
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	32.61	1.82	2.00	-8.8	±20	PASS
TX-DNH	4FSK	CH _{M1}	32.63	1.83	2.00	-8.4	±20	PASS
TX-DNH	4FSK	CH _{M2}	32.55	1.80	2.00	-10.1	±20	PASS
TX-DNH	4FSK	CH _{M3}	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

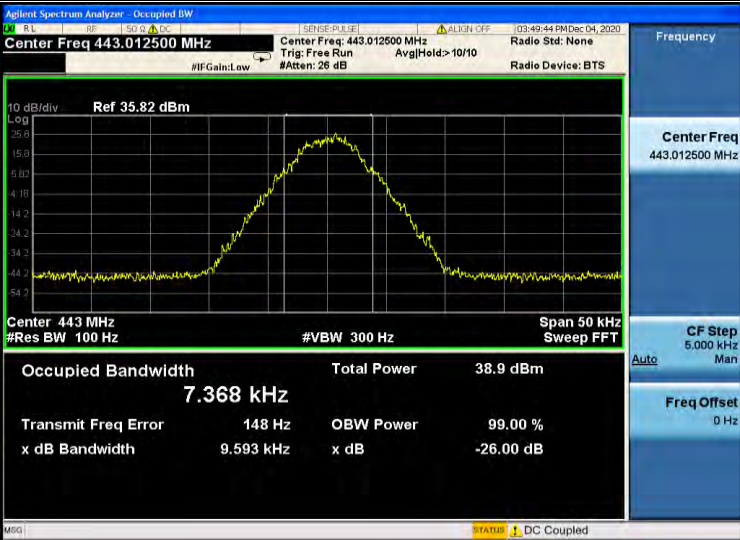
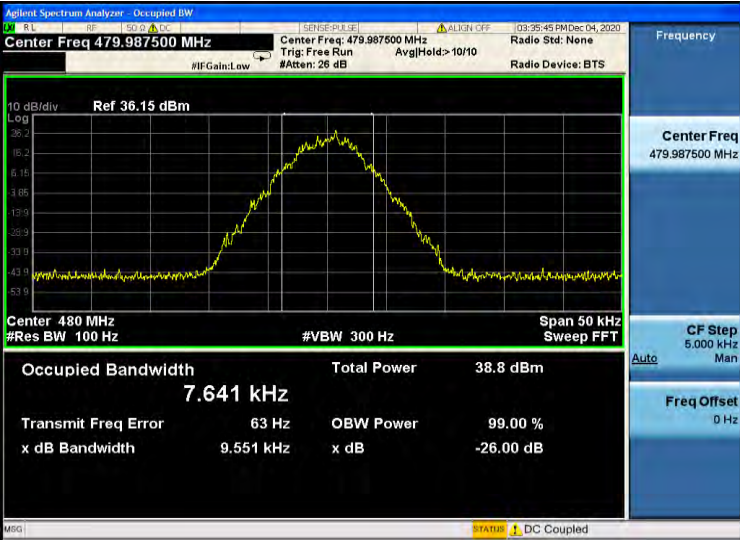
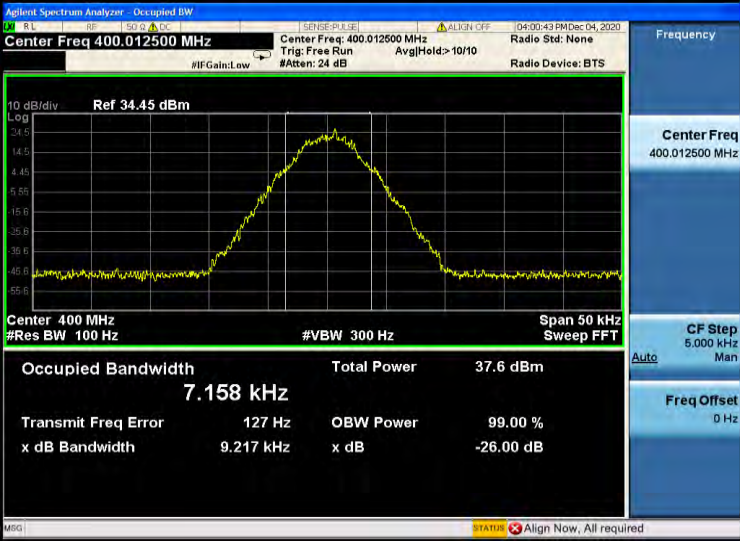


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _{M1}	
TX-DNH	4FSK	CH _{M2}	

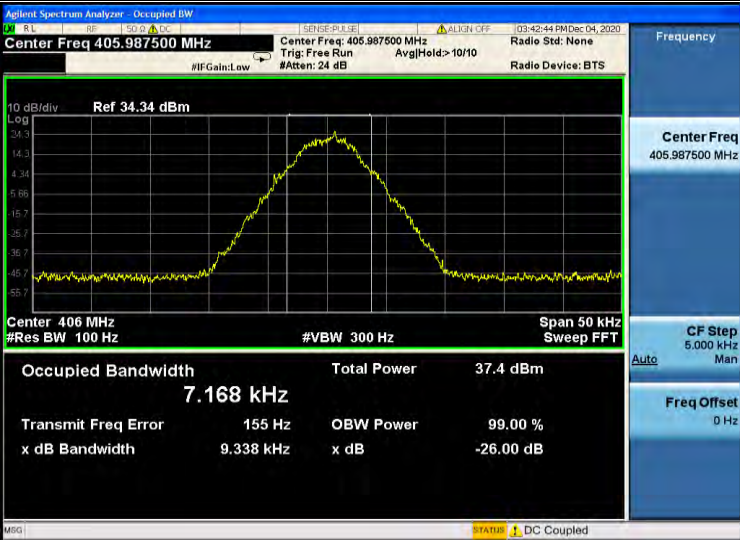
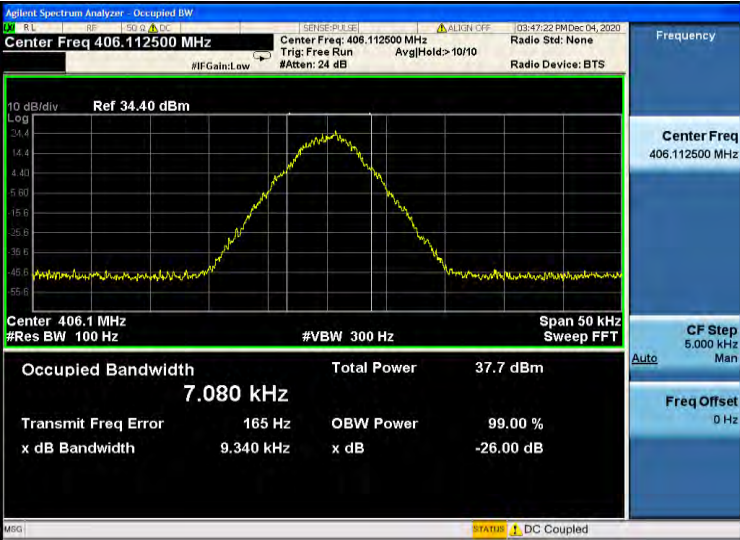
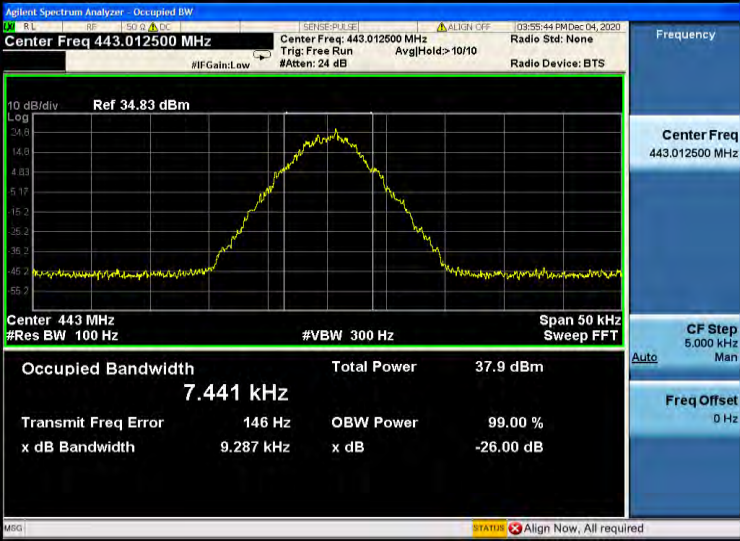


Appendix B:Occupied Bandwidth

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

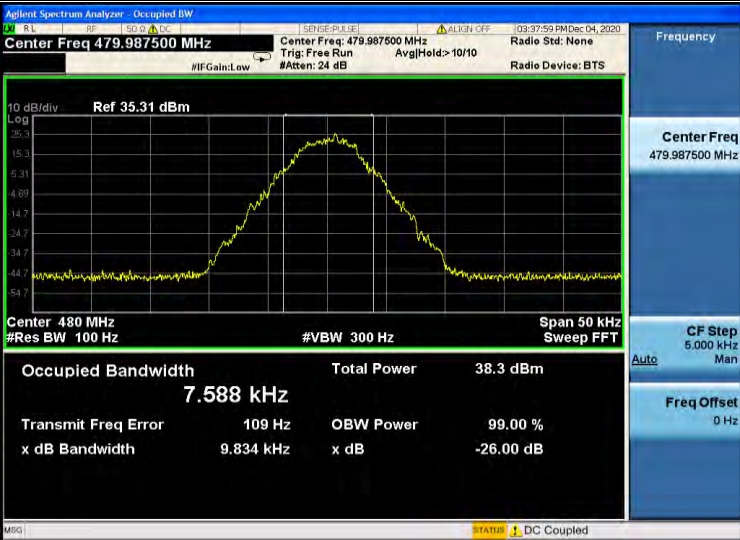
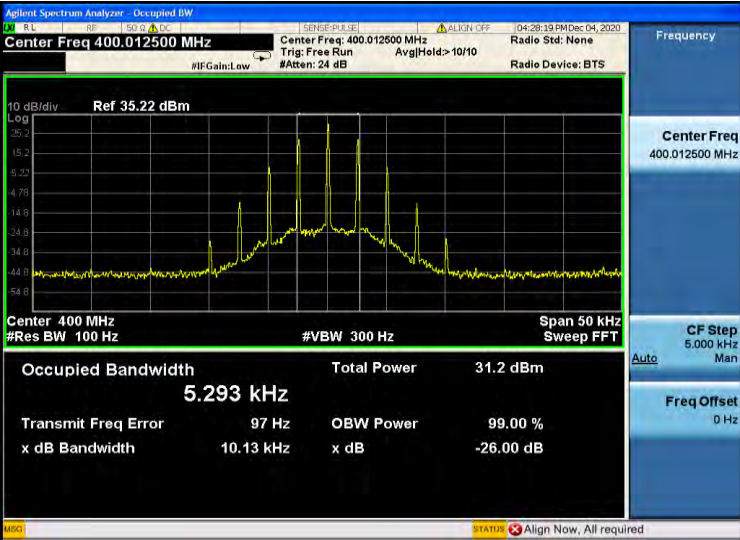
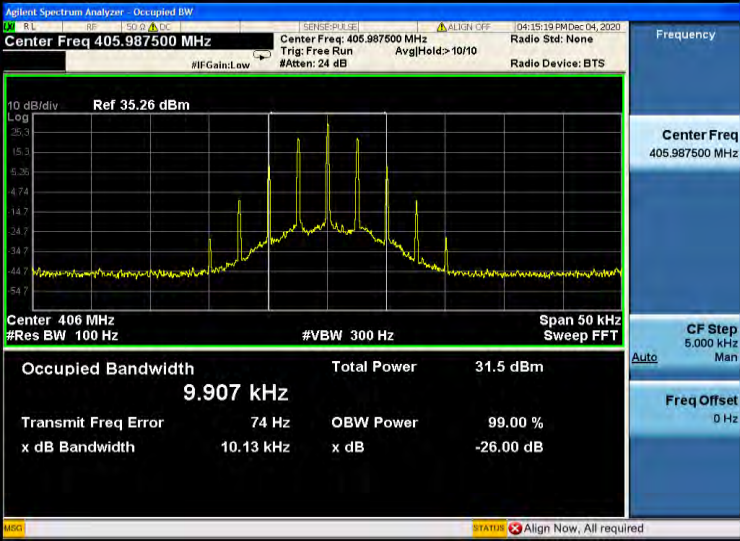


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	
TX-DNL	4FSK	CH _{M2}	
TX-DNL	4FSK	CH _{M3}	

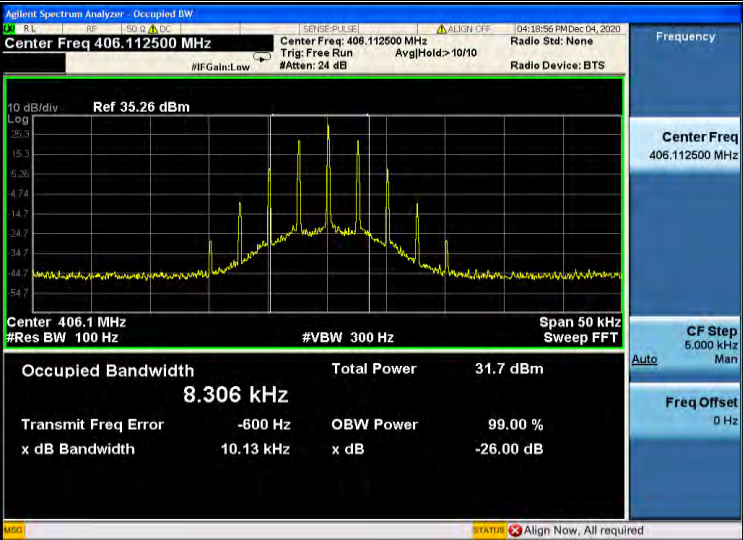
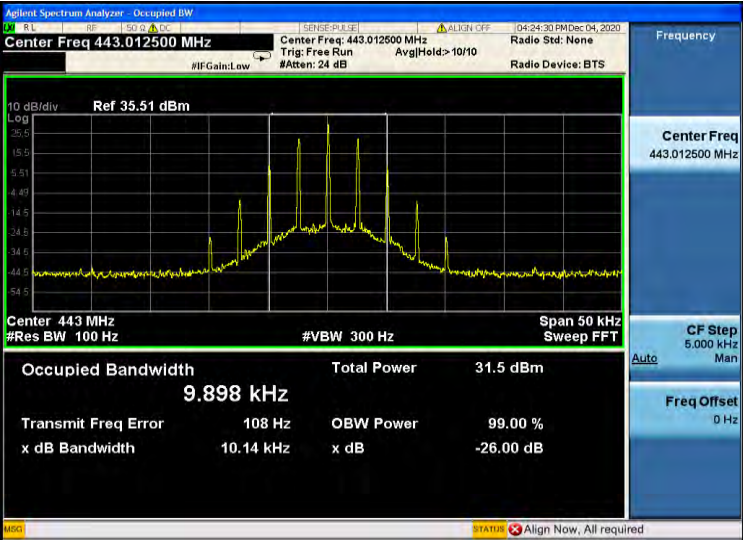
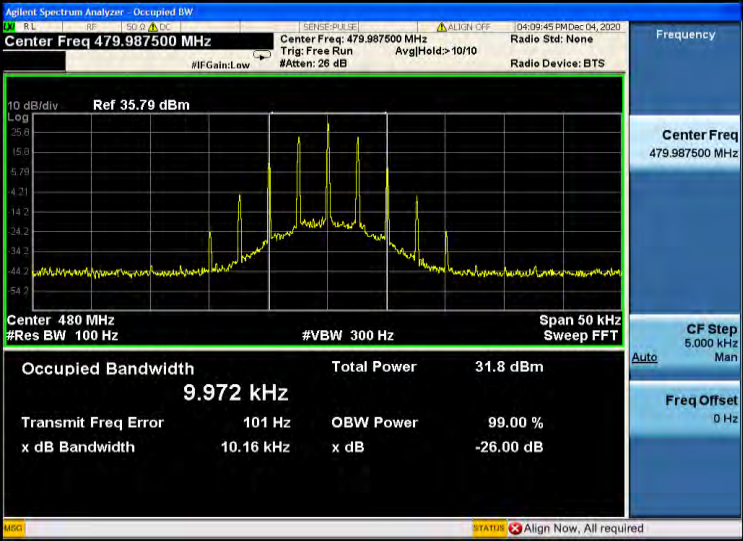


Appendix B:Occupied Bandwidth

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	

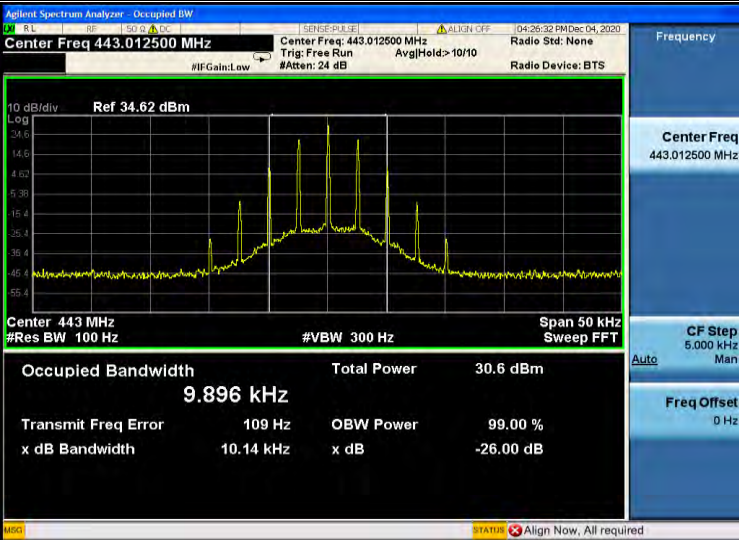
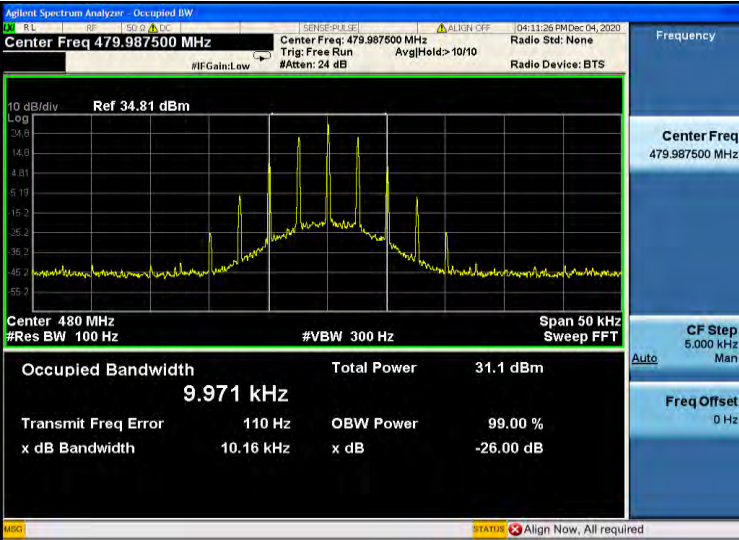


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Trig: Free Run #Atten: 24 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS 10 dB/div Ref 34.27 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.255 kHz Total Power 30.2 dBm Transmit Freq Error 97 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB Frequency 400.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz STATUS Align Now, All required
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 405.987500 MHz Trig: Free Run #Atten: 24 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS 10 dB/div Ref 34.18 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.858 kHz Total Power 30.7 dBm Transmit Freq Error 71 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB Frequency 405.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz STATUS Align Now, All required
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz Trig: Free Run #Atten: 24 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS 10 dB/div Ref 34.24 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.714 kHz Total Power 30.7 dBm Transmit Freq Error -86 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB Frequency 406.112500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz STATUS Align Now, All required

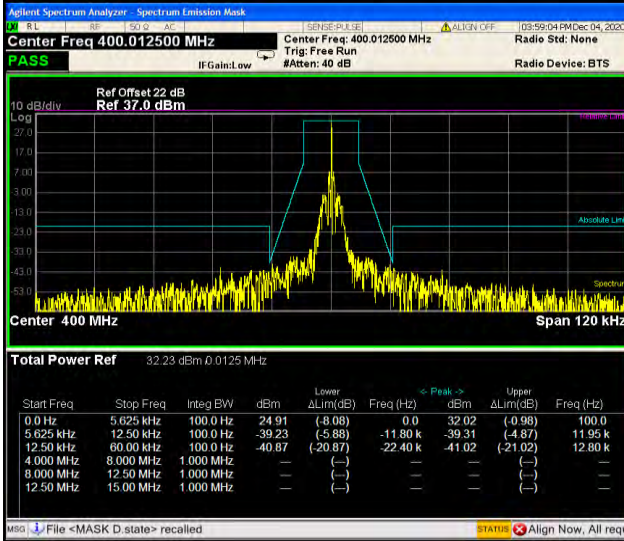
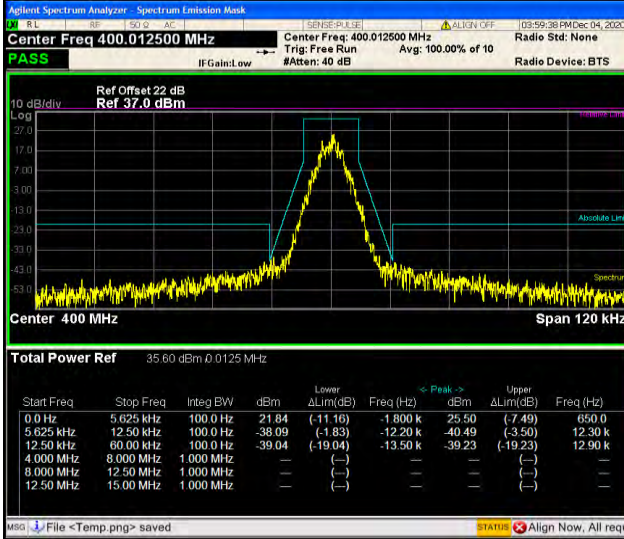
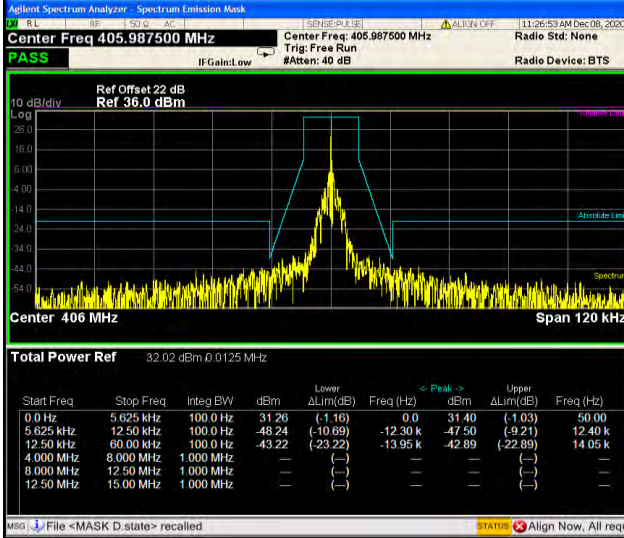


Appendix B:Occupied Bandwidth

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		Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
				Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
				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-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 ></th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.51</td><td>(-9.92)</td><td>-800.0</td><td>21.81</td><td>(-10.62)</td><td>200.0</td><td></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><td></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><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> 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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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 ></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>13.36</td><td>(-19.61)</td><td>0.0</td><td>31.92</td><td>(-1.05)</td><td>100.0</td><td></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><td></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><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> 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	—	(—)	—	—	(—)	—	
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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 ></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>21.47</td><td>(-11.50)</td><td>-600.0</td><td>28.01</td><td>(-4.96)</td><td>650.0</td><td></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><td></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><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> 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)																																																																
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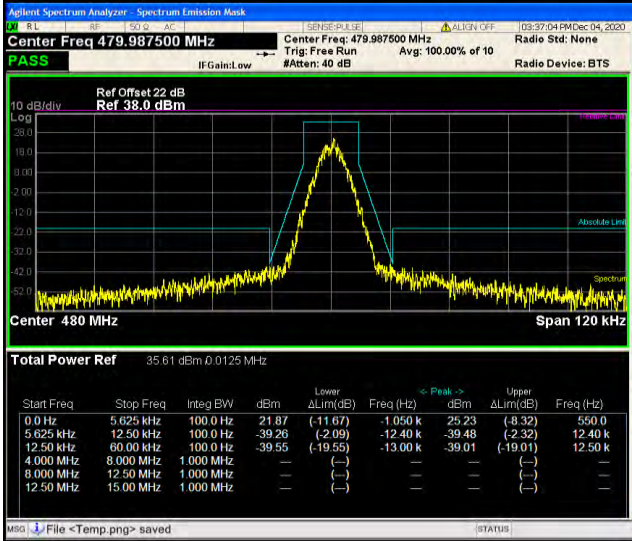
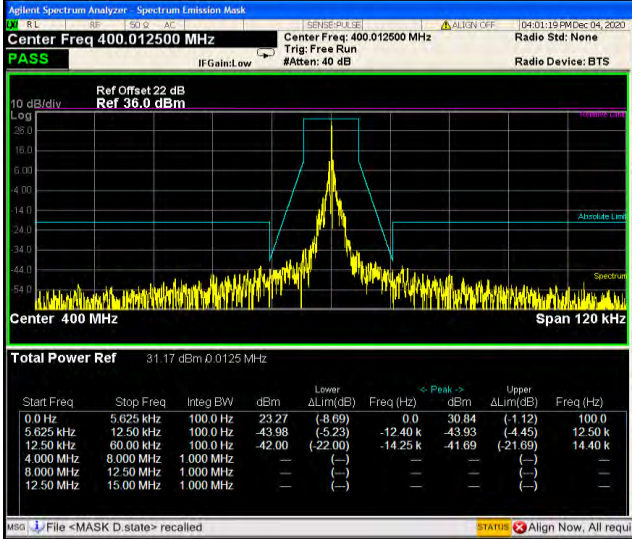
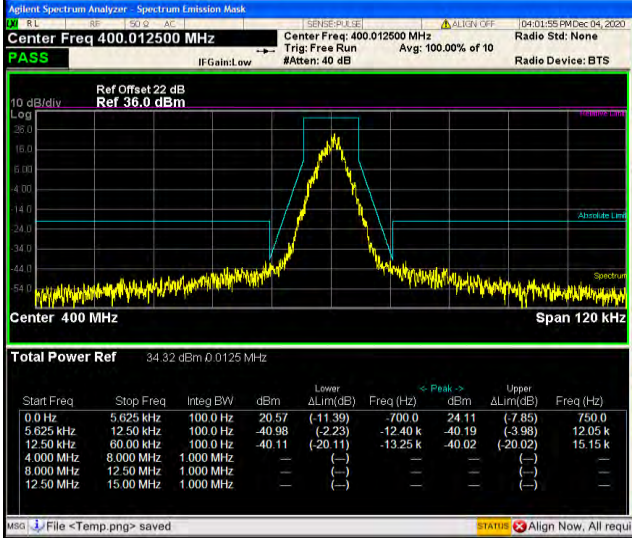


Appendix C:Emission Mask

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 Radio Std: None Radio Device: BTS 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> MSO 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	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 #Atten: 40 dB Radio Std: None Radio Device: BTS 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> MSO 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	22.96	(-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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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 Radio Std: None Radio Device: BTS 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> MSO File <MASK D.state> recalled STATUS 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	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		Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-DNL	4FSK	CH _L		Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
TX-DNL	4FSK	CH _L		Frequency Center Freq 400.012500 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-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 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 25.0 18.0 6.00 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 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 25.0 18.0 6.00 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 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 25.0 18.0 6.00 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	—	(—)	—	—	(—)	—	
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNL	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 36.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 34.64 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.26</td><td>(-11.65)</td><td>-500.0</td><td>23.69</td><td>(-8.23)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.27</td><td>(-4.12)</td><td>-12.45 k</td><td>-42.03</td><td>(-2.51)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.82</td><td>(-21.82)</td><td>-13.85 k</td><td>-40.74</td><td>(-20.74)</td><td>14.25 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 406.112500 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 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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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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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	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	21.09	(-11.17)	-950.0	22.86	(-9.41)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.66	(-3.94)	-12.30 k	-39.25	(-3.35)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.09	(-21.09)	-15.25 k	-37.34	(-17.34)	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	—	(—)	—	—	(—)	—																																																																			
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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 RL REF 50.0 AC SENSE-PULSE ALIGN OFF 03:39:39 PM Dec 04, 2020 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 480 MHz Span 120 kHz Total Power Ref 31.83 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>22.70</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>(-0.01)</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></table> MSG File <MASK D.state> recalled STATUS 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)	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	(-0.01)	-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	—	(—)	—	—	(—)	—	
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 03:39:23 PM Dec 04, 2020 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 480 MHz Span 120 kHz Total Power Ref 35.19 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>21.00</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></table> MSG File <Temp.png> saved STATUS 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)	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	—	(—)	—	—	(—)	—	
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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL REF 50.0 AC SENSE-PULSE ALIGN OFF 04:28:57 PM Dec 04, 2020 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 31.89 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>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></table> MSG File <MASK D.state> recalled STATUS 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)	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	—	(—)	—	—	(—)	—	
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
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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 37.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 32.39 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>25.19</td><td>(-7.55)</td><td>0.0</td><td>30.46</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>-41.58</td><td>(-4.70)</td><td>-12.25 k</td><td>-40.71</td><td>(-2.38)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.96</td><td>(-19.96)</td><td>-13.70 k</td><td>-39.39</td><td>(-19.39)</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> File <Temp.png> saved Align Now, All required Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz </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	28.41	(-4.33)	0.0	31.81	(-0.93)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.39	(-5.42)	-12.40 k	-41.04	(-5.26)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.69	(-20.69)	-15.35 k	-40.49	(-20.49)	15.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	TX-ANH	FM	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 37.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 32.39 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>25.19</td><td>(-7.55)</td><td>0.0</td><td>30.46</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>-41.58</td><td>(-4.70)</td><td>-12.25 k</td><td>-40.71</td><td>(-2.38)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.96</td><td>(-19.96)</td><td>-13.70 k</td><td>-39.39</td><td>(-19.39)</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> File <Temp.png> saved Align Now, All required 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	25.19	(-7.55)	0.0	30.46	(-2.28)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.58	(-4.70)	-12.25 k	-40.71	(-2.38)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.96	(-19.96)	-13.70 k	-39.39	(-19.39)	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	—	(—)	—	—	(—)	—																																																																			
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 22 dB Ref 37.0 dBm Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz Total Power Ref 32.36 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>0.875</td><td>(-31.87)</td><td>0.0</td><td>31.78</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>-40.68</td><td>(-7.05)</td><td>-11.80 k</td><td>-41.00</td><td>(-5.58)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.37</td><td>(-21.37)</td><td>-13.50 k</td><td>-41.15</td><td>(-21.15)</td><td>13.70 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></table> MSD File <MASK D.state> recalled STATUS Align Now, All required	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	0.875	(-31.87)	0.0	31.78	(-0.97)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.68	(-7.05)	-11.80 k	-41.00	(-5.58)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.37	(-21.37)	-13.50 k	-41.15	(-21.15)	13.70 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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TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 22 dB Ref 37.0 dBm Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz Total Power Ref 32.37 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>22.91</td><td>(-9.83)</td><td>-2.400 k</td><td>30.44</td><td>(-2.31)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.09</td><td>(-1.40)</td><td>-12.50 k</td><td>-40.73</td><td>(-2.77)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.84</td><td>(-17.84)</td><td>-13.15 k</td><td>-37.36</td><td>(-17.36)</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> MSD File <Temp.png> saved STATUS Align Now, All required	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	22.91	(-9.83)	-2.400 k	30.44	(-2.31)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.09	(-1.40)	-12.50 k	-40.73	(-2.77)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.84	(-17.84)	-13.15 k	-37.36	(-17.36)	12.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Ref Offset 22 dB Ref 37.0 dBm Center Freq: 443.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz Total Power Ref 31.71 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>12.95</td><td>(-20.06)</td><td>0.0</td><td>31.71</td><td>(-1.29)</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>(-3.57)</td><td>-12.50 k</td><td>-41.36</td><td>(-3.65)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.06</td><td>(-20.06)</td><td>-13.45 k</td><td>-40.16</td><td>(-20.16)</td><td>13.65 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> MSD File <MASK D.state> recalled STATUS Align Now, All required	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	12.95	(-20.06)	0.0	31.71	(-1.29)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.00	(-3.57)	-12.50 k	-41.36	(-3.65)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.06	(-20.06)	-13.45 k	-40.16	(-20.16)	13.65 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	—	(—)	—	—	(—)	—	
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
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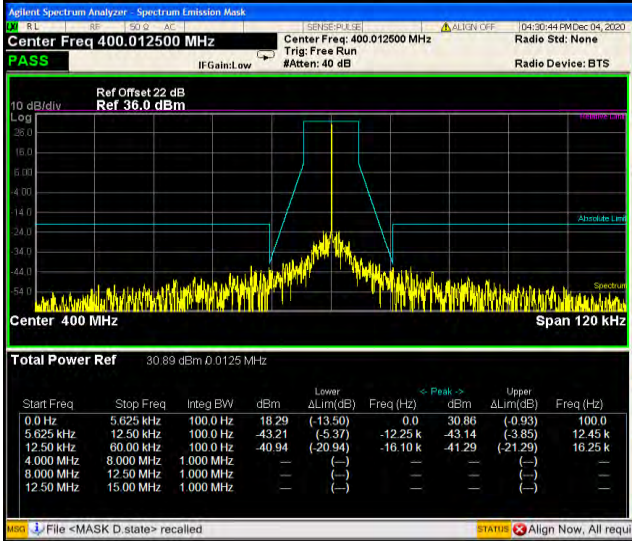
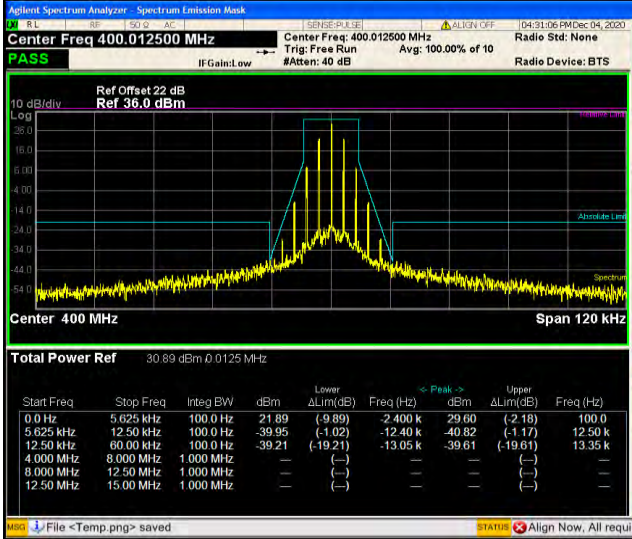
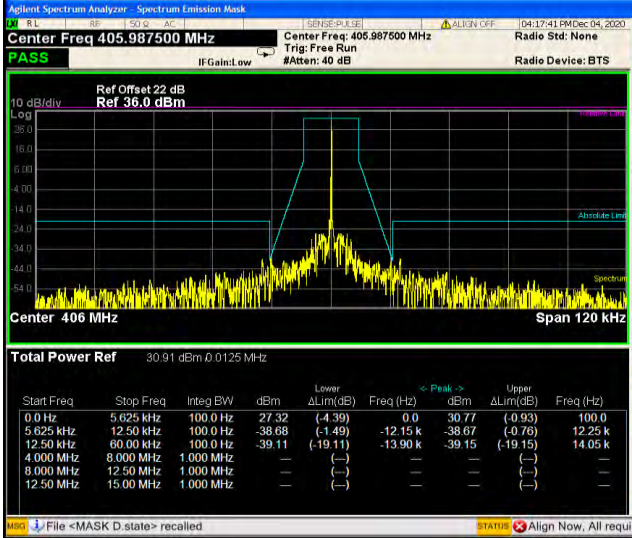


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL Center Freq 443.012500 MHz PASS IF Gain: Low Center Freq: 443.012500 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 27.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 443 MHz Span 120 kHz Total Power Ref 31.77 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>23.04</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> File <Temp.png> saved 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	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	—	(—)	—	—	(—)	—	
			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-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL Center Freq 479.987500 MHz PASS IF Gain: Low 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 27.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 480 MHz Span 120 kHz Total Power Ref 32.18 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>15.17</td><td>(-18.14)</td><td>0.0</td><td>32.19</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>-43.70</td><td>(-9.20)</td><td>-12.00 k</td><td>-43.53</td><td>(-7.58)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.83</td><td>(-20.83)</td><td>-13.70 k</td><td>-41.20</td><td>(-21.20)</td><td>13.90 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 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	15.17	(-18.14)	0.0	32.19	(-1.12)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.70	(-9.20)	-12.00 k	-43.53	(-7.58)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.83	(-20.83)	-13.70 k	-41.20	(-21.20)	13.90 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-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL Center Freq 479.987500 MHz PASS IF Gain: Low 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 27.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 480 MHz Span 120 kHz Total Power Ref 32.26 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>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> File <Temp.png> saved 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	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	—	(—)	—	—	(—)	—	
			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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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 Freq Offset 0 Hz
				Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
				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-ANL	FM	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 PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 31.31 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>23.98</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></tbody></table> File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	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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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	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 PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 31.27 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>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></tbody></table> File <MASK.D.state> recalled STATUS Align Now, All required Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	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)																																																										
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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	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 PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 31.24 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>21.83</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></tbody></table> File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	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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8.000 MHz	12.50 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 34.0 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 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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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 34.0 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 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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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 34.0 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 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)																																																								
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																	
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 6 L RF 50 Q AC SENSE:PULSE ALIGN:OFF 04:14:26 PM Dec 04, 2020 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 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>Freq (Hz)</th><th>Peak Freq (Hz)</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>(-2.28)</td><td>-12.40 k</td><td>-39.76</td><td>(-1.88)</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 STATUS Align Now, All required		Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak Freq (Hz)	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	(-2.28)	-12.40 k	-39.76	(-1.88)	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)	Freq (Hz)	Peak Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)																																																									
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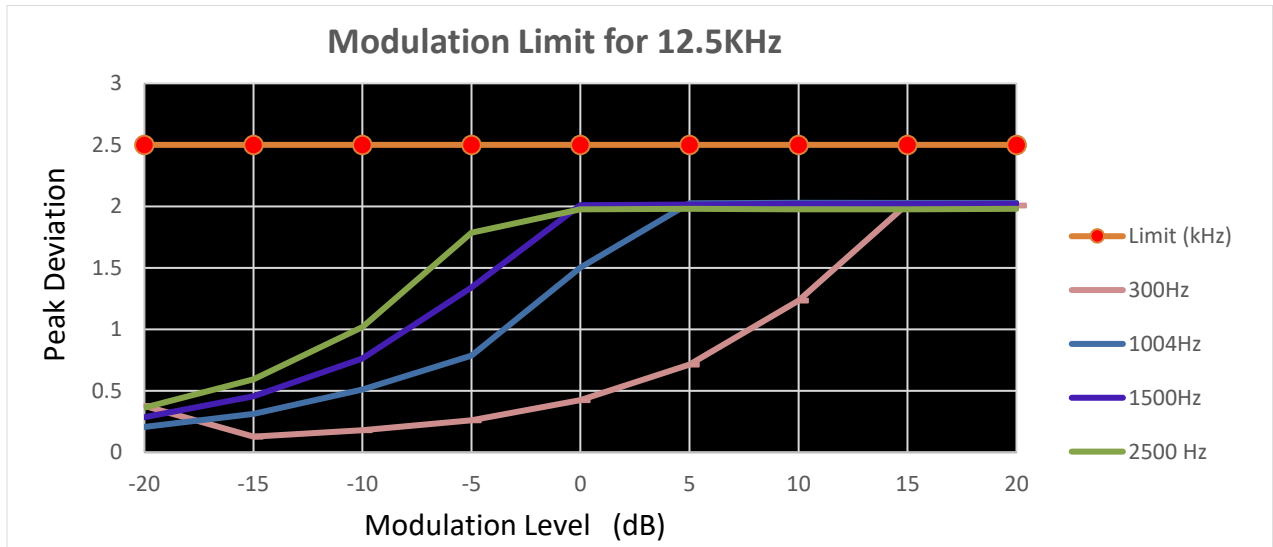
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.377	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**

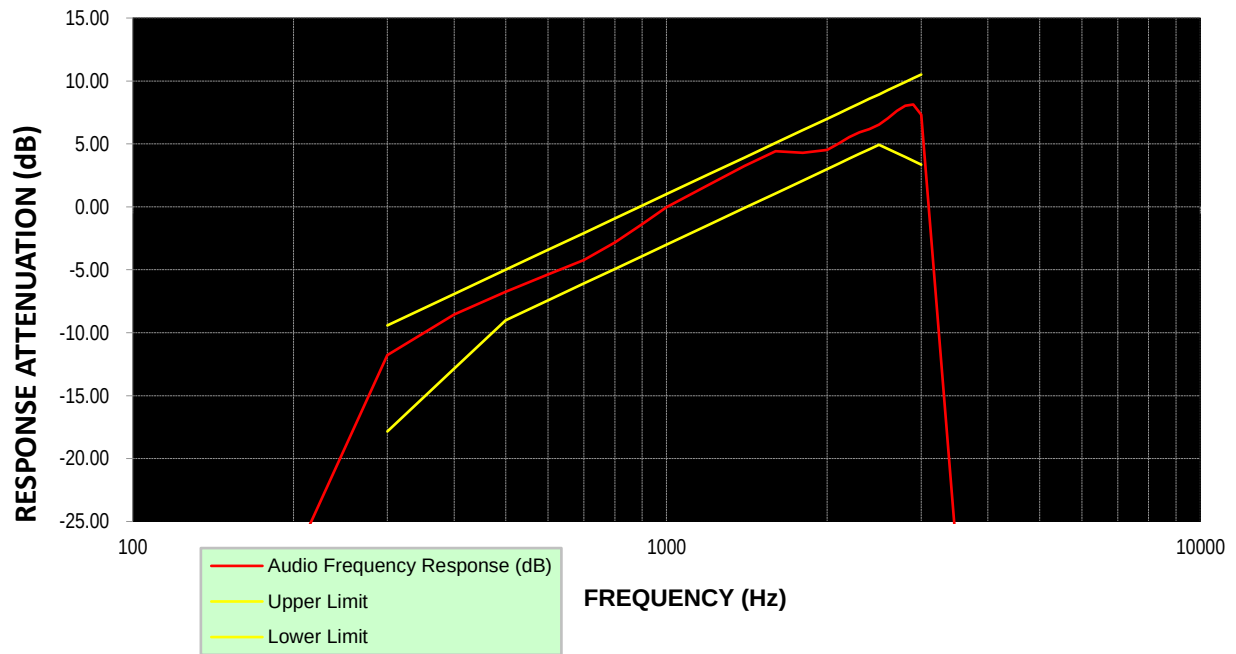
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-28.17			PASS
TX-ANH	FM	CH _{M2}	200	-28.09			PASS
TX-ANH	FM	CH _{M2}	300	-11.77	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.55	-12.86	-6.93	PASS
TX-ANH	FM	CH _{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

Aduio Frequency Response For 12.5kHz



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

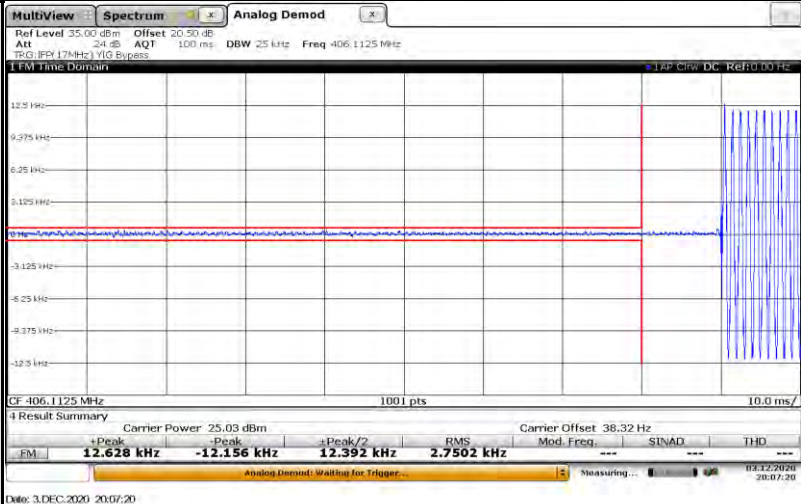
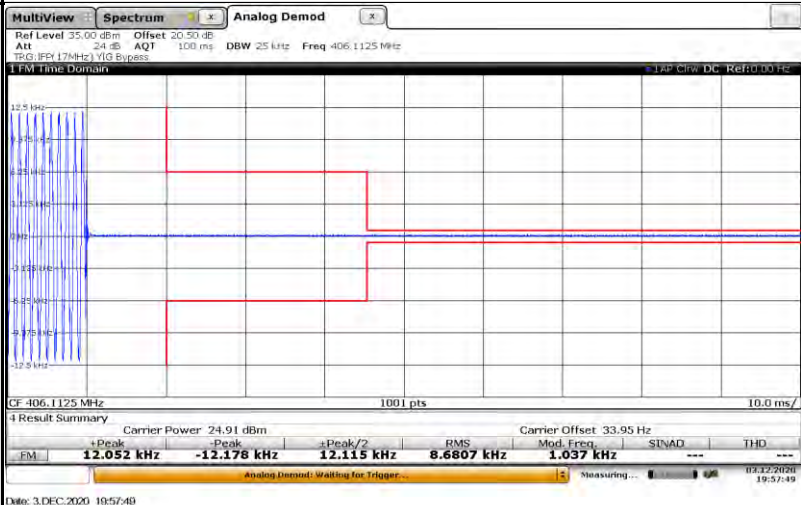
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	0.071	0.078	0.088	0.090	0.081	±2.5	PASS
TX-DNH	4FSK	V _N	-20	0.073	0.078	0.090	0.090	0.087	±2.5	PASS
TX-DNH	4FSK	V _N	-10	0.073	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

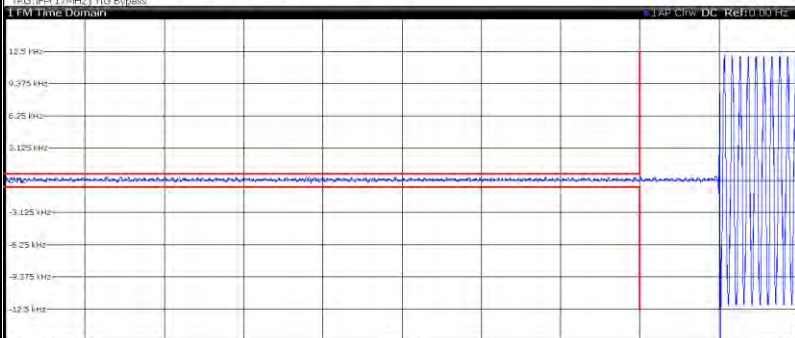


Appendix H:Transmitter Frequency Behavior

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 Result Summary Carrier Power 24.35 dBm Carrier Offset 36.90 Hz Mod. Freq 1.0247 kHz THD --- 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 Result Summary Carrier Power 25.03 dBm Carrier Offset 38.32 Hz Mod. Freq --- THD --- 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 Result Summary Carrier Power 24.91 dBm Carrier Offset 33.95 Hz Mod. Freq 1.037 kHz THD --- 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



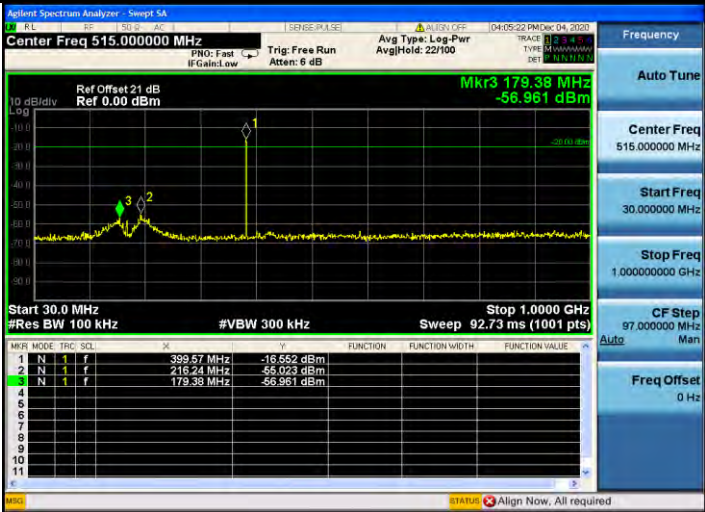
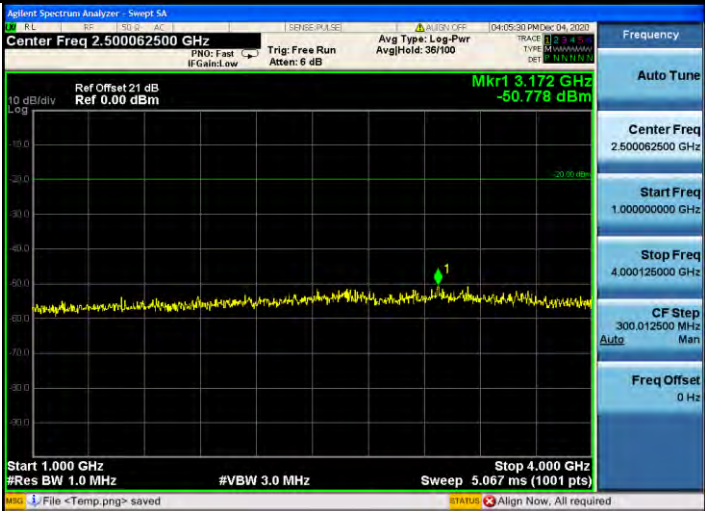
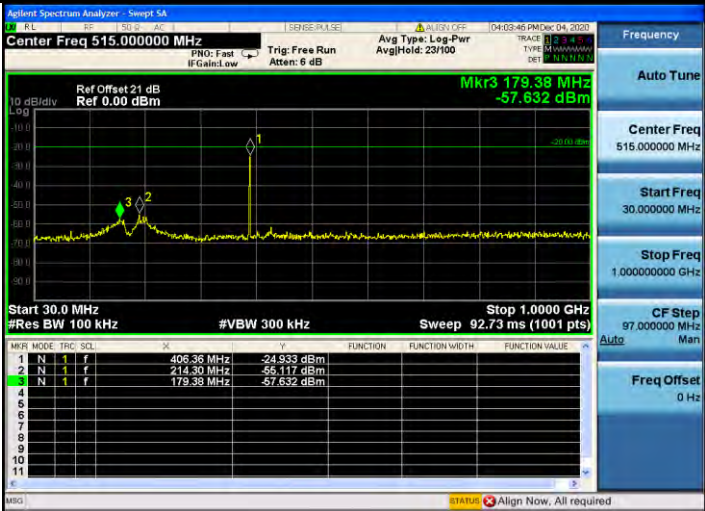
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-ANH	FM	CH _{M2}	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: RFEN (17MHz) VLG Express 1 FM Time Domain  CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 24.45 dBm</td><td colspan="2">Carrier Offset 38.08 Hz</td></tr><tr><td>FM</td><td>+Peak 12.199 kHz</td><td>-Peak -16.664 kHz</td><td>+Peak/2 14.432 kHz</td></tr><tr><td></td><td></td><td></td><td>RMS 2.7527 kHz</td></tr><tr><td></td><td></td><td></td><td>Mod. Freq. --- SINAD --- THD ---</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	+Peak 12.199 kHz	-Peak -16.664 kHz	+Peak/2 14.432 kHz				RMS 2.7527 kHz				Mod. Freq. --- SINAD --- THD ---
Carrier Power 24.45 dBm		Carrier Offset 38.08 Hz																	
FM	+Peak 12.199 kHz	-Peak -16.664 kHz	+Peak/2 14.432 kHz																
			RMS 2.7527 kHz																
			Mod. Freq. --- SINAD --- THD ---																

ON-OFF

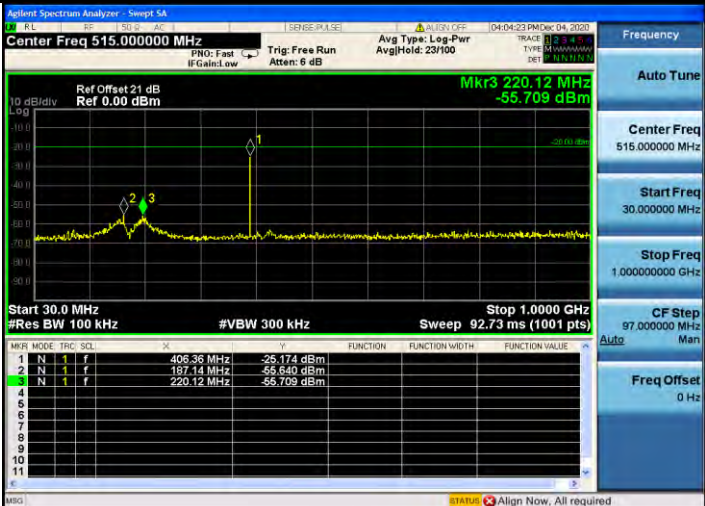


Appendix I:Spurious Emission On Antenna Port

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

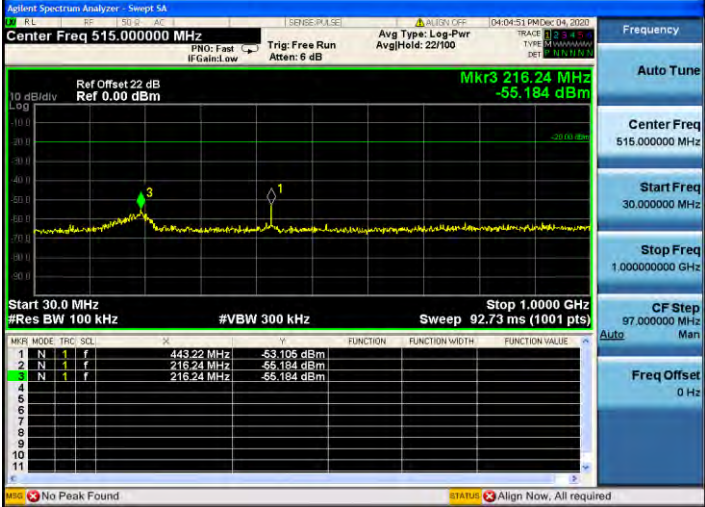
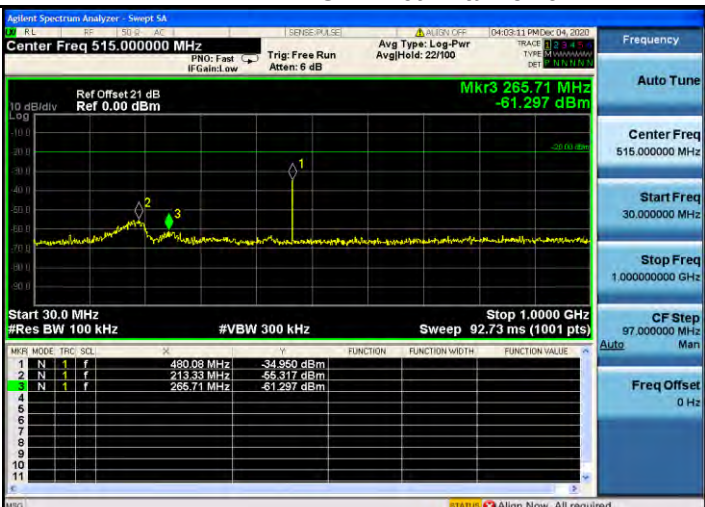


Appendix I:Spurious Emission On Antenna Port

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

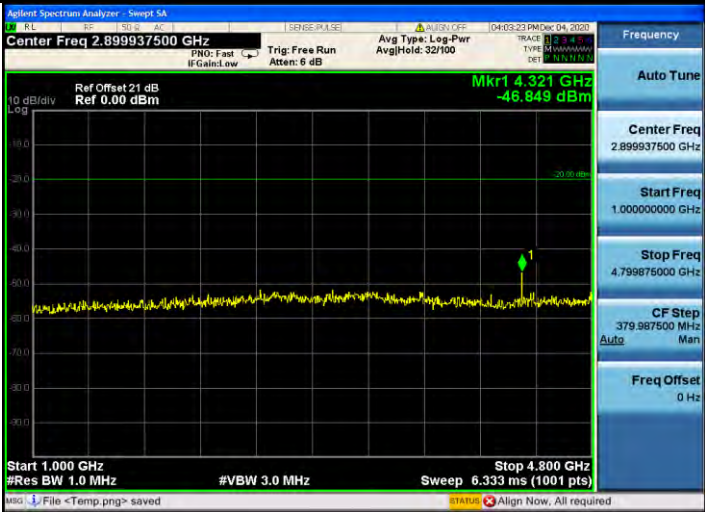
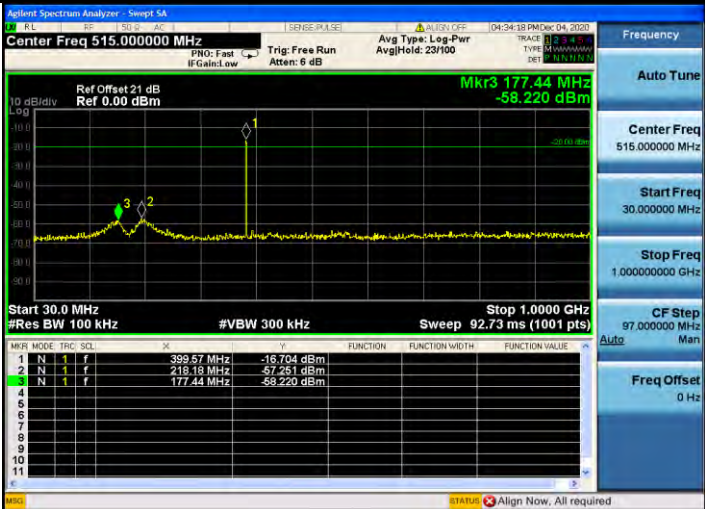
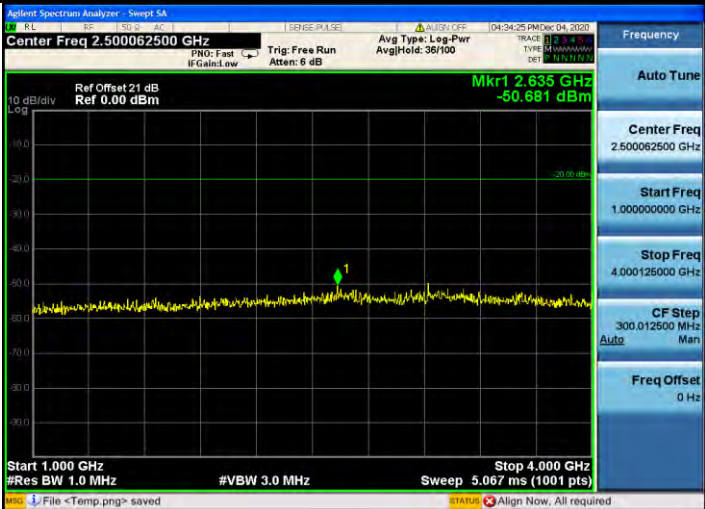


Appendix I:Spurious Emission On Antenna Port

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

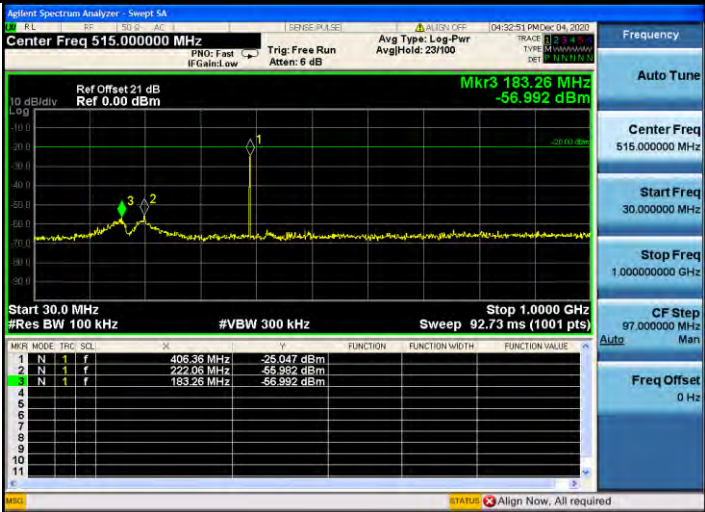
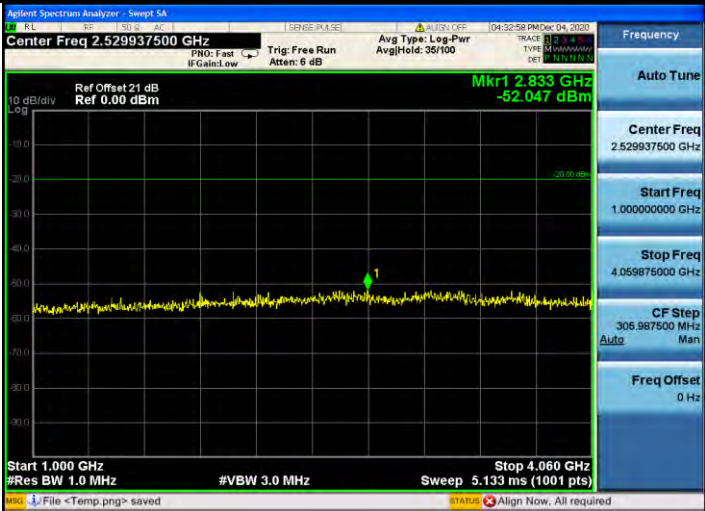
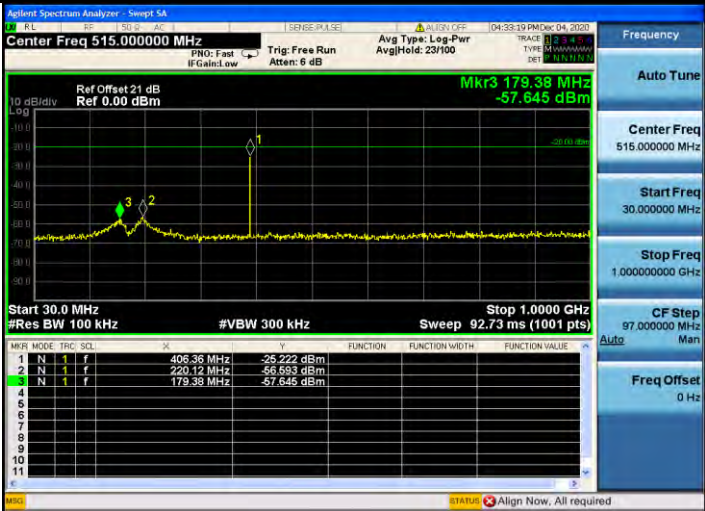


Appendix I:Spurious Emission On Antenna Port

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

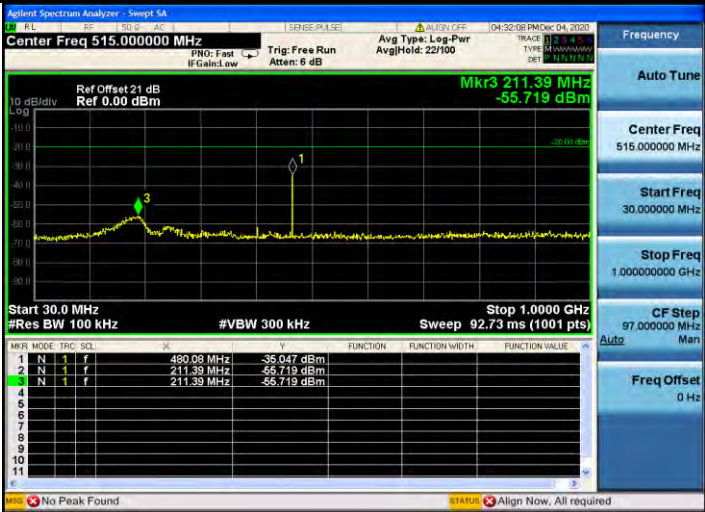
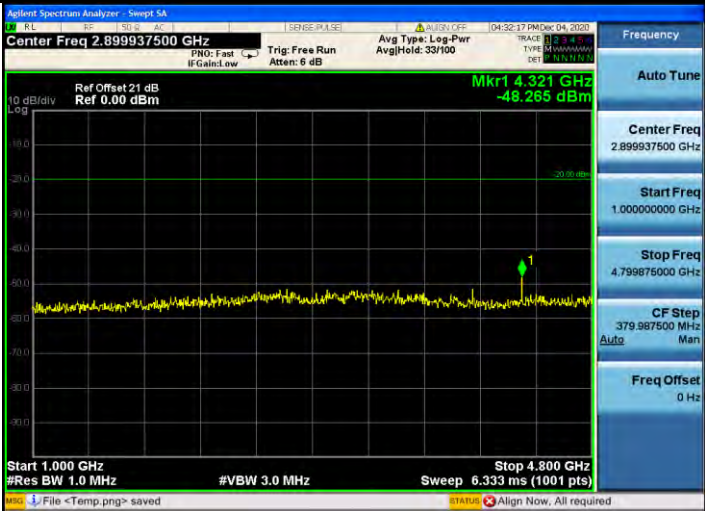


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.530562500 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 3.204 GHz -51.297 dBm 10 dB/div Log Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Align Now, All required Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061126000 GHz CF Step 306.112600 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																				
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Mkr3 214.30 MHz -57.177 dBm 10 dB/div Log Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) File <Temp.png> saved Align Now, All required 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>MEAS</th><th>MODE</th><th>TRIG</th><th>SOL</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>443.22 MHz</td><td>-47.085 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>214.30 MHz</td><td>-57.177 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>214.30 MHz</td><td>-57.177 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MEAS	MODE	TRIG	SOL	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	443.22 MHz	-47.085 dBm				2	N	1	f	214.30 MHz	-57.177 dBm				3	N	1	f	214.30 MHz	-57.177 dBm			
MEAS	MODE	TRIG	SOL	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	443.22 MHz	-47.085 dBm																																		
2	N	1	f	214.30 MHz	-57.177 dBm																																		
3	N	1	f	214.30 MHz	-57.177 dBm																																		
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.715062500 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 4.430 GHz -42.674 dBm 10 dB/div Log Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.733 ms (1001 pts) File <Temp.png> saved Align Now, All required Frequency Auto Tune Center Freq 2.715062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.430125000 GHz CF Step 343.012500 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-ANH	FM	CH _H	 30MHz~1GHz
TX-ANH	FM	CH _H	 1GHz~10th Harmonic

----End of Report----