

Project No.	SHT2206029701EW		
Test sample No.	YPHT22060297003	Model No.	DH460 UHF
Start test date	2022/7/11	Finish date	2022/7/19
Temperature	25.8℃	Humidity	45%
Test Engineer	<i>Chunshui Gu</i>	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	PASS
B	Occupied Bandwidth	PASS
C	Emission Mask	PASS
D	Modulation Limit	PASS
E	Audio Frequency Response	PASS
F	Frequency Stability Test & Temperature	PASS
G	Frequency Stability Test & Voltage	PASS
H	Transmitter Frequency Behavior	PASS
I	Spurious Emission On Antenna Port	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	35.6	3.63	4.00	-9.3	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.7	3.72	4.00	-7.0	±20	PASS
TX-DNH	4FSK	CH _{M2}	35.7	3.72	4.00	-7.0	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.5	3.55	4.00	-11.3	±20	PASS
TX-DNH	4FSK	CH _H	35.6	3.63	4.00	-9.3	±20	PASS
TX-DNL	4FSK	CH _L	29.5	0.89	1.00	-11.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	29.8	0.95	1.00	-5.0	±20	PASS
TX-DNL	4FSK	CH _{M2}	29.8	0.95	1.00	-5.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH _H	29.1	0.81	1.00	-19.0	±20	PASS
TX-ANH	FM	CH _L	36.2	4.19	4.00	4.8	±20	PASS
TX-ANH	FM	CH _{M1}	36.2	4.15	4.00	3.8	±20	PASS
TX-ANH	FM	CH _{M2}	36.2	4.16	4.00	4.0	±20	PASS
TX-ANH	FM	CH _{M3}	35.7	3.73	4.00	-6.8	±20	PASS
TX-ANH	FM	CH _H	36.2	4.16	4.00	4.0	±20	PASS
TX-ANL	FM	CH _L	29.9	0.97	1.00	-3.0	±20	PASS
TX-ANL	FM	CH _{M1}	30.3	1.07	1.00	7.0	±20	PASS
TX-ANL	FM	CH _{M2}	30.3	1.07	1.00	7.0	±20	PASS
TX-ANL	FM	CH _{M3}	29.4	0.86	1.00	-14.0	±20	PASS
TX-ANL	FM	CH _H	30.0	0.99	1.00	-1.0	±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	7.785	9.453	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.644	9.413	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.575	9.321	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.624	9.333	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.617	9.305	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.626	9.567	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.587	9.330	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.668	9.365	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.593	9.707	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.314	9.279	≤11.25	PASS
TX-ANH	FM	CH _L	9.977	10.160	≤11.25	PASS
TX-ANH	FM	CH _{M1}	9.971	10.160	≤11.25	PASS
TX-ANH	FM	CH _{M2}	9.976	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M3}	9.976	10.170	≤11.25	PASS
TX-ANH	FM	CH _H	9.973	10.170	≤11.25	PASS
TX-ANL	FM	CH _L	9.980	10.160	≤11.25	PASS
TX-ANL	FM	CH _{M1}	9.976	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M2}	9.976	10.160	≤11.25	PASS
TX-ANL	FM	CH _{M3}	9.978	10.170	≤11.25	PASS
TX-ANL	FM	CH _H	9.976	10.170	≤11.25	PASS

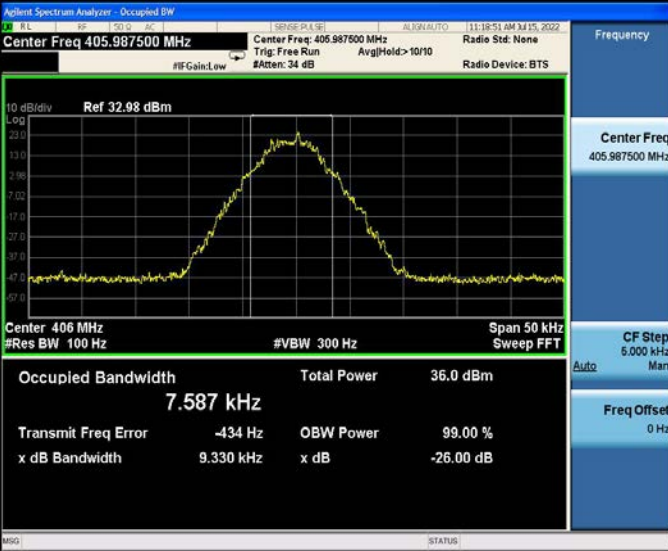
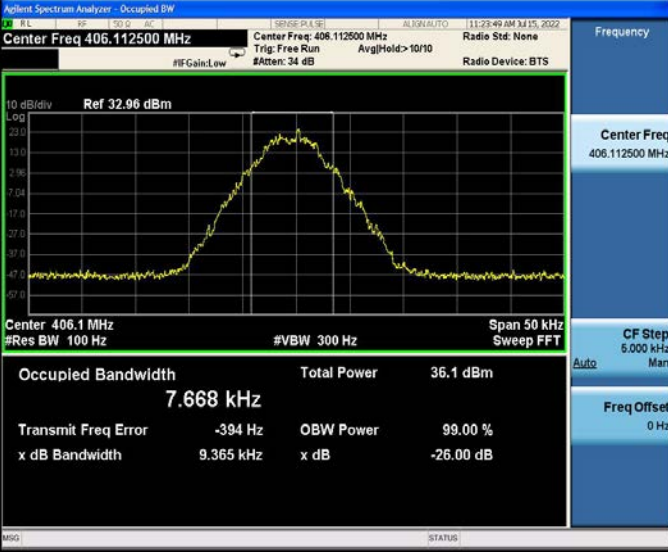
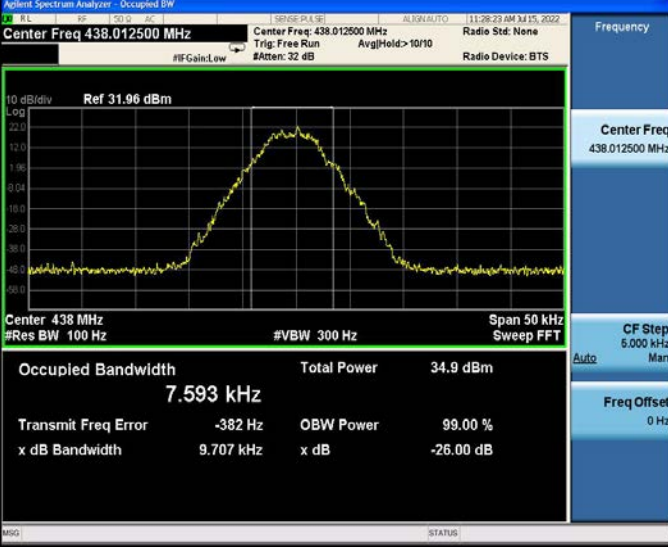
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 38.96 dBm Occupied Bandwidth 7.785 kHz Total Power 41.6 dBm Transmit Freq Error -366 Hz x dB Bandwidth 9.453 kHz OBW Power 99.00 % x dB -26.00 dB
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 38.96 dBm Occupied Bandwidth 7.644 kHz Total Power 41.8 dBm Transmit Freq Error -439 Hz x dB Bandwidth 9.413 kHz OBW Power 99.00 % x dB -26.00 dB
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 38.93 dBm Occupied Bandwidth 7.575 kHz Total Power 41.6 dBm Transmit Freq Error -387 Hz x dB Bandwidth 9.321 kHz OBW Power 99.00 % x dB -26.00 dB

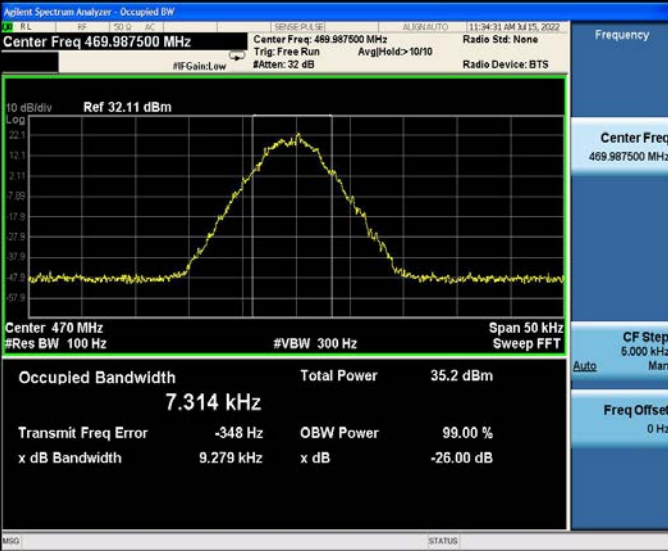
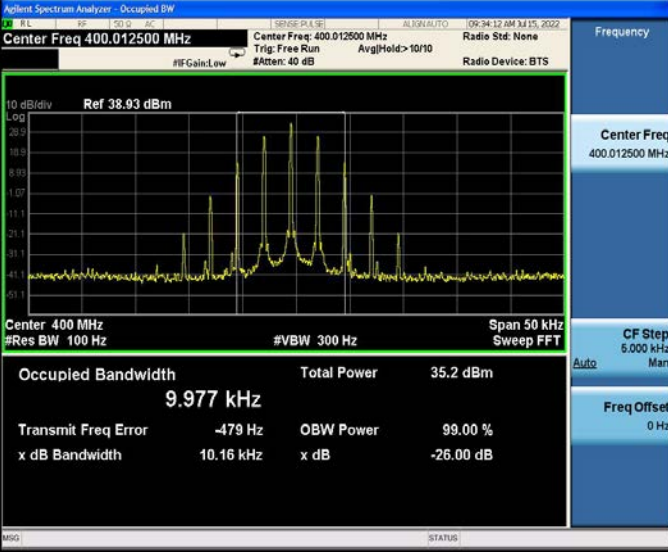
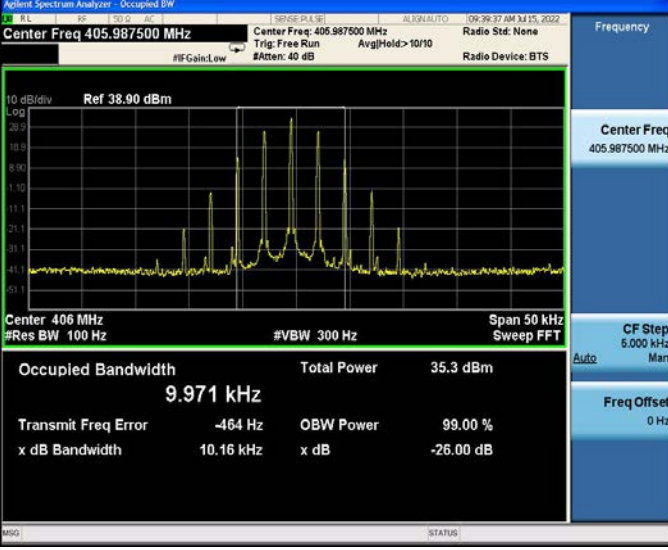
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 38.45 dBm Occupied Bandwidth 7.624 kHz Total Power 41.2 dBm Transmit Freq Error -359 Hz OBW Power 99.00 % x dB Bandwidth 9.333 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 38.79 dBm Occupied Bandwidth 7.617 kHz Total Power 41.5 dBm Transmit Freq Error -368 Hz OBW Power 99.00 % x dB Bandwidth 9.305 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 32.95 dBm Occupied Bandwidth 7.626 kHz Total Power 36.0 dBm Transmit Freq Error -405 Hz OBW Power 99.00 % x dB Bandwidth 9.567 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 32.98 dBm Occupied Bandwidth 7.587 kHz Total Power 35.0 dBm Transmit Freq Error -434 Hz OBW Power 99.00 % x dB Bandwidth 9.330 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 32.96 dBm Occupied Bandwidth 7.668 kHz Total Power 35.1 dBm Transmit Freq Error -394 Hz OBW Power 99.00 % x dB Bandwidth 9.365 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 31.96 dBm Occupied Bandwidth 7.593 kHz Total Power 34.9 dBm Transmit Freq Error -382 Hz OBW Power 99.00 % x dB Bandwidth 9.707 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 32.11 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.314 kHz Total Power 35.2 dBm Transmit Freq Error -348 Hz OBW Power 99.00 % x dB Bandwidth 9.279 kHz x dB -26.00 dB
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 38.93 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.977 kHz Total Power 35.2 dBm Transmit Freq Error -479 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 38.90 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.971 kHz Total Power 35.3 dBm Transmit Freq Error -464 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB

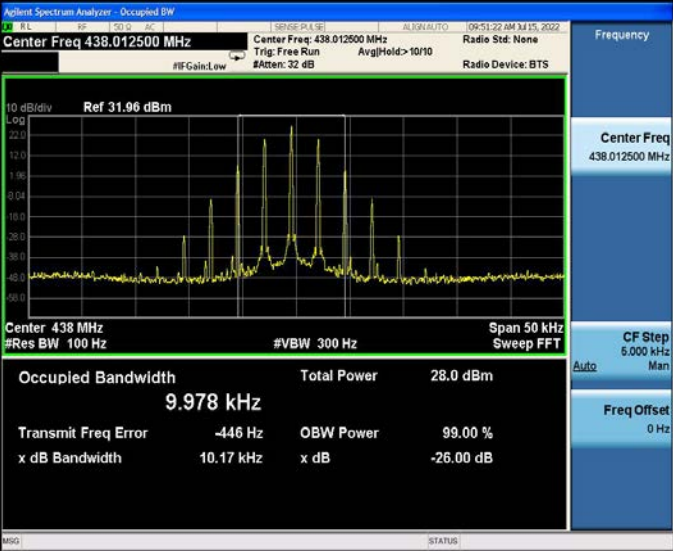
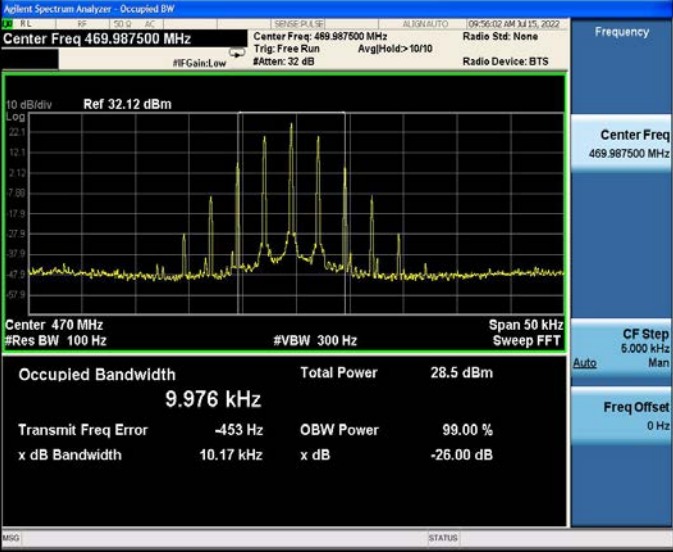
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 38.91 dBm Occupied Bandwidth 9.976 kHz Total Power 35.0 dBm Transmit Freq Error -453 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 38.35 dBm Occupied Bandwidth 9.976 kHz Total Power 34.6 dBm Transmit Freq Error -455 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 38.69 dBm Occupied Bandwidth 9.973 kHz Total Power 35.5 dBm Transmit Freq Error -470 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB

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 Ref 32.90 dBm Occupied Bandwidth 9.980 kHz Total Power 29.1 dBm Transmit Freq Error -460 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 32.98 dBm Occupied Bandwidth 9.976 kHz Total Power 29.2 dBm Transmit Freq Error -454 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 32.97 dBm Occupied Bandwidth 9.976 kHz Total Power 29.0 dBm Transmit Freq Error -445 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB

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 438.012500 MHz Ref 31.96 dBm Occupied Bandwidth: 9.978 kHz Total Power: 28.0 dBm Transmit Freq Error: -446 Hz OBW Power: 99.00 % x dB Bandwidth: 10.17 kHz x dB: -26.00 dB
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 32.12 dBm Occupied Bandwidth: 9.976 kHz Total Power: 28.5 dBm Transmit Freq Error: -453 Hz OBW Power: 99.00 % x dB Bandwidth: 10.17 kHz x dB: -26.00 dB

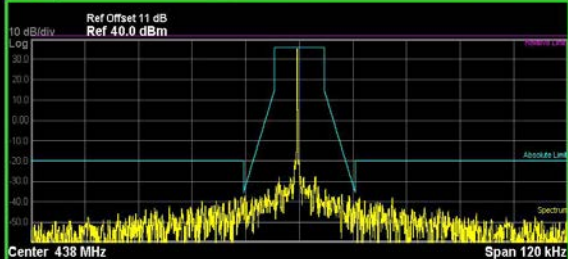
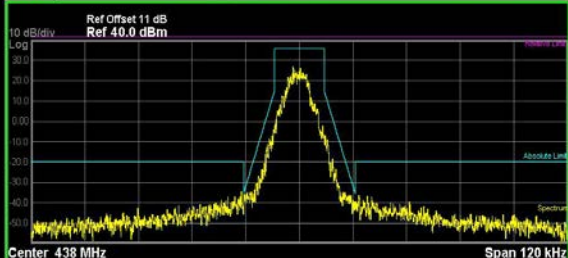
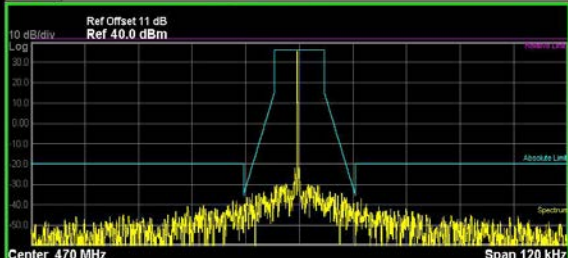
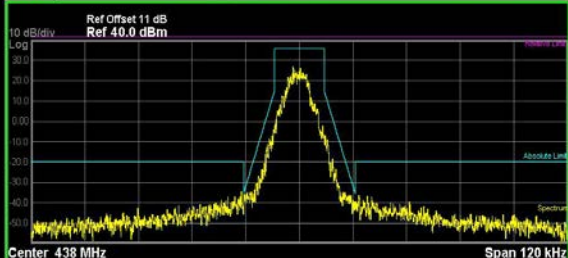
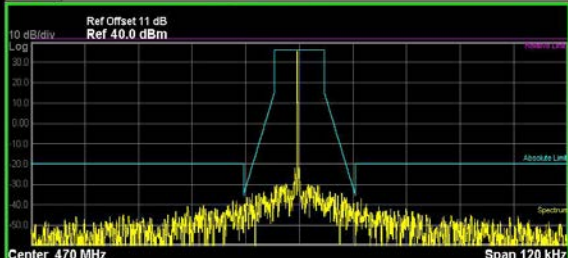
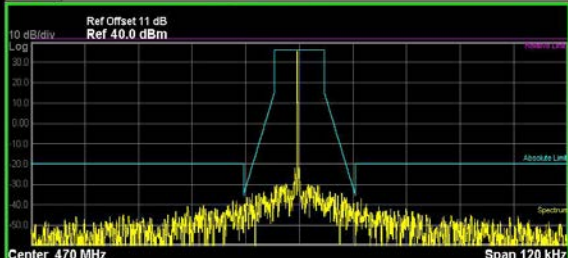
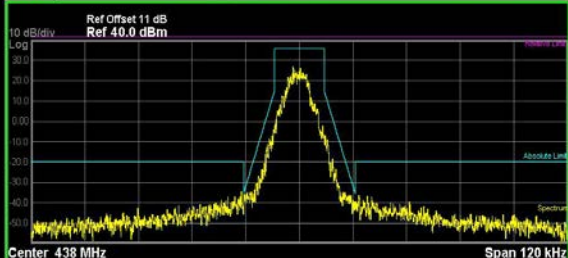
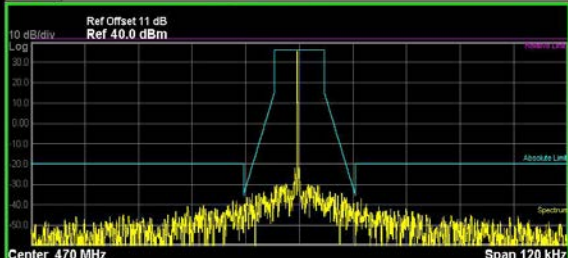
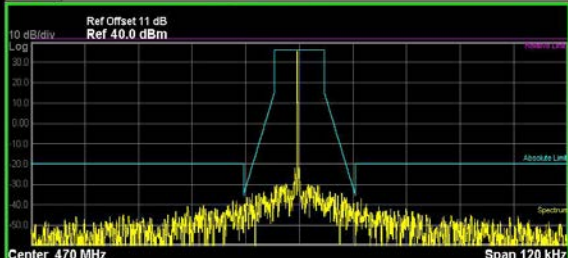
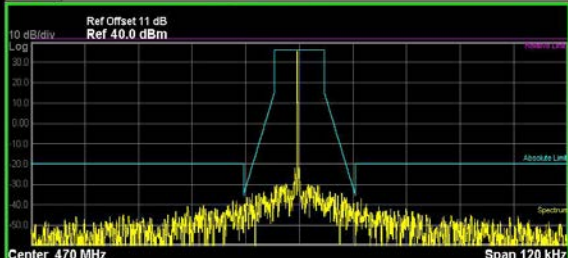
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 40.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Center 400 MHz Span 120 kHz Total Power Ref 35.66 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.67</td><td>(-0.76)</td><td>-500.0</td><td>-28.97</td><td>(-65.40)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.10</td><td>(-4.55)</td><td>-12.30 k</td><td>-38.57</td><td>(-4.29)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.81</td><td>(-15.81)</td><td>-13.20 k</td><td>-39.41</td><td>(-19.41)</td><td>13.50 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></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.67	(-0.76)	-500.0	-28.97	(-65.40)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.10	(-4.55)	-12.30 k	-38.57	(-4.29)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.81	(-15.81)	-13.20 k	-39.41	(-19.41)	13.50 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-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low Attenu: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 406 MHz Span 120 kHz Total Power Ref 35.75 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.70</td><td>(-0.81)</td><td>-500.0</td><td>-29.21</td><td>(-65.72)</td><td>2.250 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.39</td><td>(-5.46)</td><td>-12.50 k</td><td>-41.24</td><td>(-7.78)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.71</td><td>(-17.71)</td><td>-18.30 k</td><td>-37.46</td><td>(-17.46)</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 <MASK D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.70	(-0.81)	-500.0	-29.21	(-65.72)	2.250 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.39	(-5.46)	-12.50 k	-41.24	(-7.78)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.71	(-17.71)	-18.30 k	-37.46	(-17.46)	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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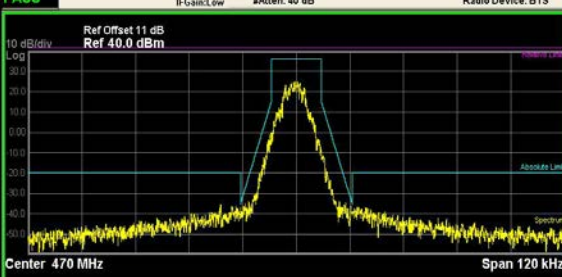
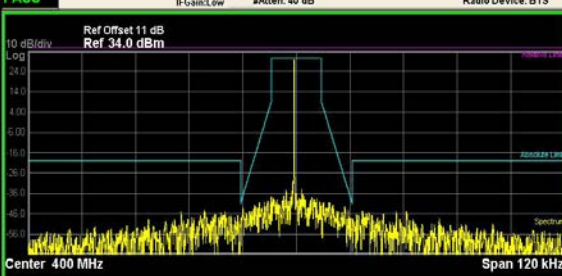
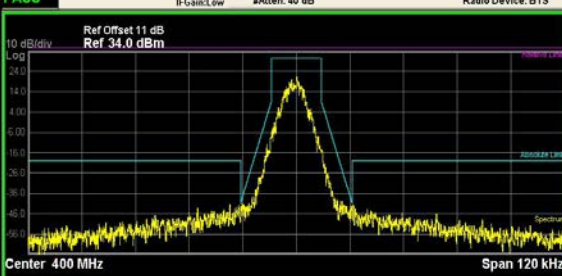
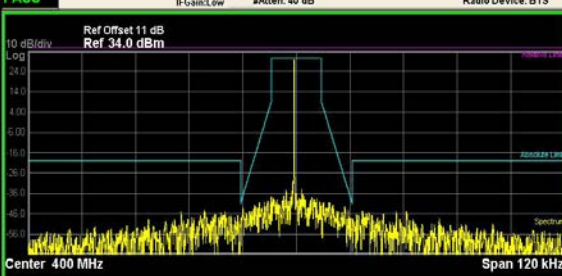
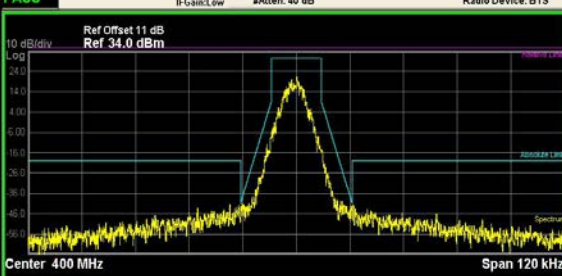
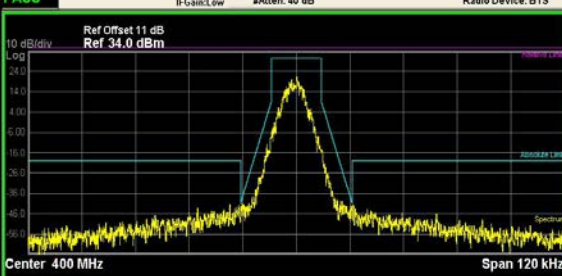
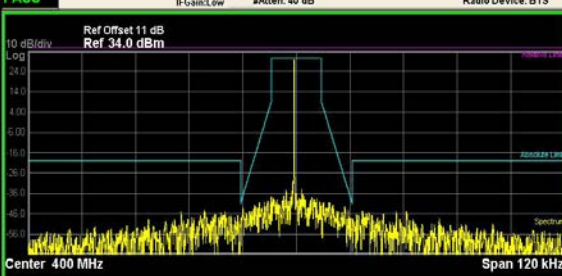
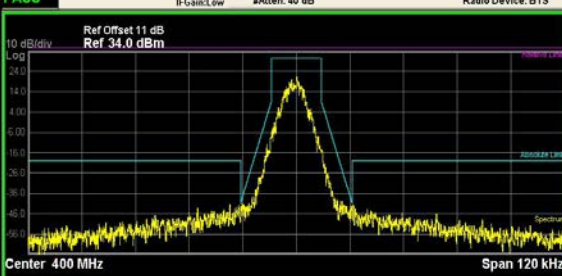
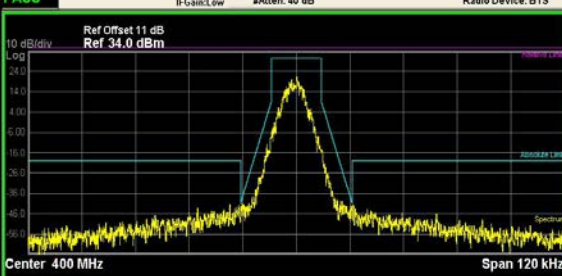
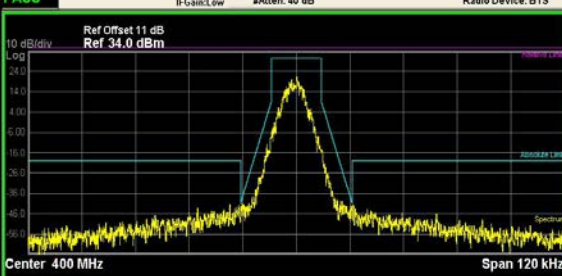
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
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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 438.012500 MHz PASS Ref Offset 11 dB Ref 40.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 35.24 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</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>35.13</td><td>(-0.79)</td><td>-500.0</td><td>-22.44</td><td>(-58.36)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.17</td><td>(-4.47)</td><td>-12.25 k</td><td>-41.39</td><td>(-7.89)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.91</td><td>(-17.91)</td><td>-12.95 k</td><td>-38.09</td><td>(-18.09)</td><td>13.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 11 dB Ref 40.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 38.26 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.80</td><td>(-9.13)</td><td>-1.400 k</td><td>25.74</td><td>(-10.18)</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.63</td><td>(-1.21)</td><td>-12.35 k</td><td>-40.34</td><td>(-4.83)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.80</td><td>(-14.80)</td><td>-12.90 k</td><td>-36.34</td><td>(-16.34)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz PASS Ref Offset 11 dB Ref 40.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 35.39 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</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>35.32</td><td>(-0.94)</td><td>-450.0</td><td>-22.58</td><td>(-58.84)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.12</td><td>(-4.94)</td><td>-12.50 k</td><td>-39.19</td><td>(-6.19)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.04</td><td>(-18.04)</td><td>-14.00 k</td><td>-37.27</td><td>(-17.27)</td><td>13.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz </td></tr></td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.13	(-0.79)	-500.0	-22.44	(-58.36)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.17	(-4.47)	-12.25 k	-41.39	(-7.89)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.91	(-17.91)	-12.95 k	-38.09	(-18.09)	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	—	(—)	—	—	(—)	—	TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - 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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 40.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 38.91 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak</th><th>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>25.11</td><td>(-11.15)</td><td>-200.0</td><td>24.86</td><td>(-11.40)</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.74</td><td>(-2.29)</td><td>-12.40 k</td><td>-36.08</td><td>(-2.35)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.50</td><td>(-15.50)</td><td>-16.90 k</td><td>-36.67</td><td>(-16.67)</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></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_L</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
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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 PASS IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 35.0 dBm 10 dB/div Log </

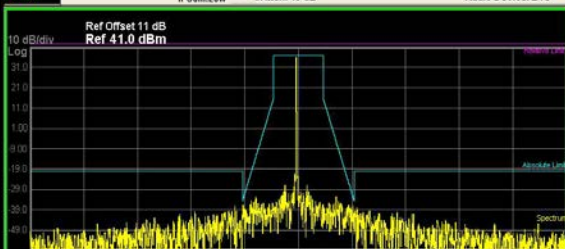
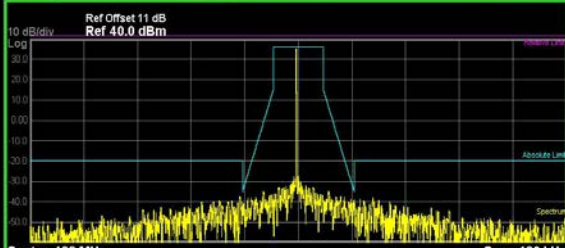
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5.625 kHz	12.50 kHz	100.0 Hz	-40.81	(-6.20)	-12.45 k	-41.73	(-7.32)	12.45 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-37.49	(-17.49)	-14.50 k	-38.01	(-18.01)	13.30 k																																																																																																																																																																																																
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 17 dB Ref 47.0 dBm IF Gain: Low Attenu: 40 dB 10 dB/div Log Center 400 MHz Span 120 kHz Total Power Ref 35.66 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>33.81</td><td>(-8.77)</td><td>-450.0</td><td>27.55</td><td>(-15.03)</td><td>2.050 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-19.58</td><td>(-5.24)</td><td>-10.50 k</td><td>-34.95</td><td>(-9.38)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.14</td><td>(-13.14)</td><td>-13.00 k</td><td>-35.55</td><td>(-15.55)</td><td>14.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
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TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Radio Device: BTS Ref Offset 11 dB Ref 40.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 35.24 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>35.24</td><td>(-1.04)</td><td>-450.0</td><td>-27.43</td><td>(63.71)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.91</td><td>(-7.48)</td><td>-12.40 k</td><td>-38.78</td><td>(-3.82)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.53</td><td>(-17.53)</td><td>-13.00 k</td><td>-38.07</td><td>(-18.07)</td><td>16.75 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 <MASK D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.24	(-1.04)	-450.0	-27.43	(63.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.91	(-7.48)	-12.40 k	-38.78	(-3.82)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.53	(-17.53)	-13.00 k	-38.07	(-18.07)	16.75 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 17 dB Ref 46.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 34.68 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 ΔLim(dB)</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>32.83</td><td>(-9.23)</td><td>-450.0</td><td>26.47</td><td>(-15.59)</td><td>2.050 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.54</td><td>(-6.52)</td><td>-12.45 k</td><td>-35.30</td><td>(-8.83)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.35</td><td>(-15.35)</td><td>-14.40 k</td><td>-35.35</td><td>(-15.35)</td><td>13.10 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.83	(-9.23)	-450.0	26.47	(-15.59)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-35.54	(-6.52)	-12.45 k	-35.30	(-8.83)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.35	(-15.35)	-14.40 k	-35.35	(-15.35)	13.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Ref Offset 11 dB Ref 41.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 35.49 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 ΔLim(dB)</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>35.51</td><td>(-1.10)</td><td>-450.0</td><td>-28.51</td><td>(-65.12)</td><td>2.550 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.89</td><td>(-8.23)</td><td>-12.45 k</td><td>-41.55</td><td>(-7.45)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.34</td><td>(-16.34)</td><td>-13.20 k</td><td>-37.17</td><td>(-17.17)</td><td>17.65 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></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.51	(-1.10)	-450.0	-28.51	(-65.12)	2.550 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.89	(-8.23)	-12.45 k	-41.55	(-7.45)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.34	(-16.34)	-13.20 k	-37.17	(-17.17)	17.65 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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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Ref Offset 17 dB Ref 47.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 35.04 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>33.19</td><td>(-9.32)</td><td>-450.0</td><td>26.85</td><td>(-15.66)</td><td>2.050 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-20.70</td><td>(-6.88)</td><td>-10.45 k</td><td>-38.71</td><td>(-9.24)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.76</td><td>(-14.76)</td><td>-12.95 k</td><td>-37.40</td><td>(-17.40)</td><td>18.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.19	(-9.32)	-450.0	26.85	(-15.66)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-20.70	(-6.88)	-10.45 k	-38.71	(-9.24)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.76	(-14.76)	-12.95 k	-37.40	(-17.40)	18.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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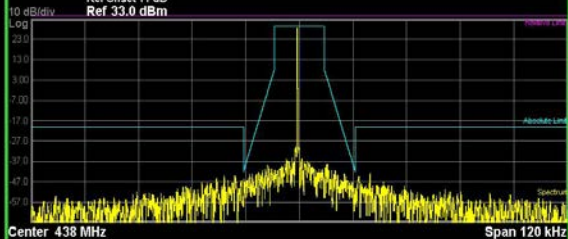
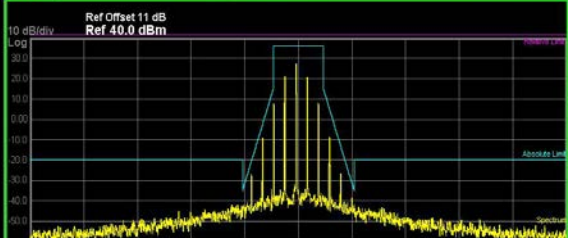
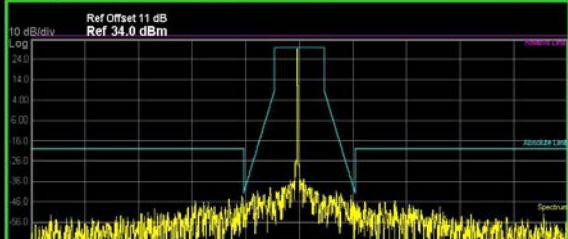
Appendix C:Emission Mask

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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 11 dB Ref 35.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 29.81 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>29.80</td><td>(-0.74)</td><td>-450.0</td><td>-32.84</td><td>(63.38)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.23</td><td>(-9.60)</td><td>-12.05 k</td><td>-47.77</td><td>(-9.41)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.67</td><td>(-22.67)</td><td>-12.80 k</td><td>-43.74</td><td>(-23.74)</td><td>19.65 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></tbody></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz 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	29.80	(-0.74)	-450.0	-32.84	(63.38)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.23	(-9.60)	-12.05 k	-47.77	(-9.41)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.67	(-22.67)	-12.80 k	-43.74	(-23.74)	19.65 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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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 PASS IF Gain: Low Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 29.98 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.10</td><td>(-8.63)</td><td>-500.0</td><td>21.72</td><td>(-15.00)</td><td>2.000 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.42</td><td>(-5.25)</td><td>-10.50 k</td><td>-43.15</td><td>(-8.80)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.06</td><td>(-19.06)</td><td>-13.00 k</td><td>-40.96</td><td>(-20.96)</td><td>17.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	28.10	(-8.63)	-500.0	21.72	(-15.00)	2.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-25.42	(-5.25)	-10.50 k	-43.15	(-8.80)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.06	(-19.06)	-13.00 k	-40.96	(-20.96)	17.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS IF Gain: Low Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 29.87 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>29.81</td><td>(-0.69)</td><td>-450.0</td><td>-33.29</td><td>(-63.79)</td><td>2.150 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.64</td><td>(-8.43)</td><td>-12.40 k</td><td>-40.33</td><td>(-1.93)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.42</td><td>(-22.42)</td><td>-12.50 k</td><td>-42.67</td><td>(-22.67)</td><td>14.90 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></tbody></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	29.81	(-0.69)	-450.0	-33.29	(-63.79)	2.150 k	5.625 kHz	12.50 kHz	100.0 Hz	-48.64	(-8.43)	-12.40 k	-40.33	(-1.93)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.42	(-22.42)	-12.50 k	-42.67	(-22.67)	14.90 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	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS IF Gain: Low Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 29.88 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.04</td><td>(-8.65)</td><td>-450.0</td><td>21.73</td><td>(-14.96)</td><td>2.050 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.56</td><td>(-5.35)</td><td>-10.50 k</td><td>-42.33</td><td>(-7.58)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.46</td><td>(-20.46)</td><td>-12.00 k</td><td>-42.32</td><td>(-22.32)</td><td>15.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	28.04	(-8.65)	-450.0	21.73	(-14.96)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-25.56	(-5.35)	-10.50 k	-42.33	(-7.58)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.46	(-20.46)	-12.00 k	-42.32	(-22.32)	15.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS IF Gain: Low Ref Offset 11 dB Ref 33.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 28.51 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.41</td><td>(-1.03)</td><td>-500.0</td><td>-30.41</td><td>(-59.86)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.85</td><td>(-4.02)</td><td>-12.45 k</td><td>-47.33</td><td>(-10.06)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.95</td><td>(-23.95)</td><td>-14.30 k</td><td>-42.70</td><td>(-22.70)</td><td>15.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.41	(-1.03)	-500.0	-30.41	(-59.86)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.85	(-4.02)	-12.45 k	-47.33	(-10.06)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.95	(-23.95)	-14.30 k	-42.70	(-22.70)	15.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz PASS IF Gain: Low Ref Offset 11 dB Ref 34.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 28.87 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.91</td><td>(-0.69)</td><td>-450.0</td><td>-29.61</td><td>(-59.21)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.53</td><td>(-5.89)</td><td>-12.50 k</td><td>-47.50</td><td>(-5.89)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.08</td><td>(-23.08)</td><td>-12.75 k</td><td>-45.57</td><td>(-25.57)</td><td>21.40 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> File <MASK D.state> recalled Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.91	(-0.69)	-450.0	-29.61	(-59.21)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.53	(-5.89)	-12.50 k	-47.50	(-5.89)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.08	(-23.08)	-12.75 k	-45.57	(-25.57)	21.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

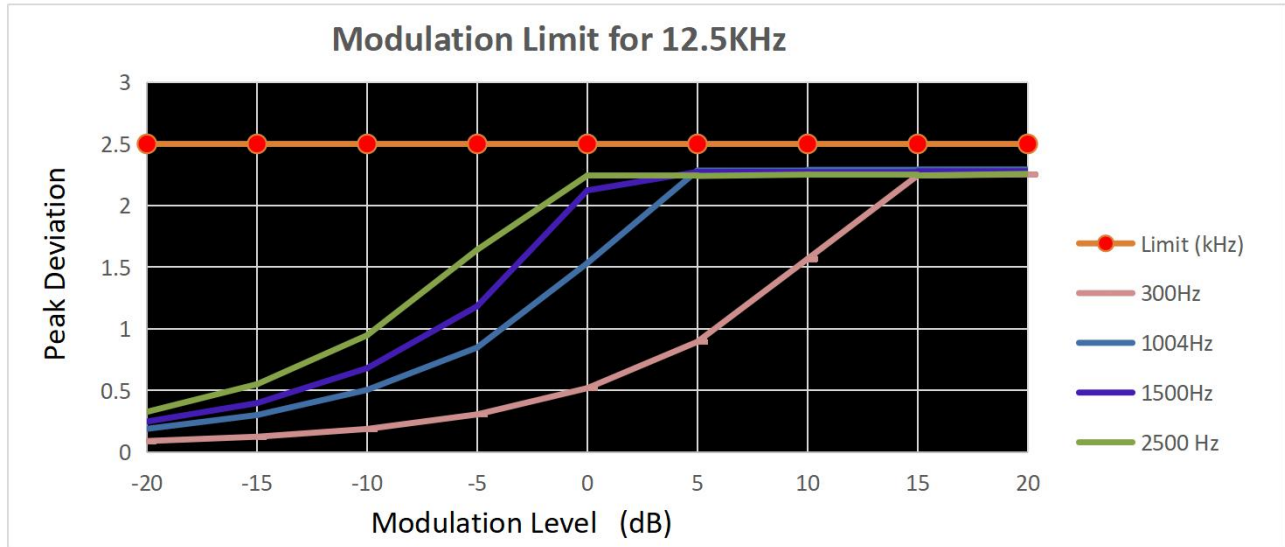
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 11.3 100.000 Hz

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	0.090	0.189	0.248	0.327	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.125	0.301	0.398	0.551	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.188	0.505	0.681	0.948	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.306	0.849	1.184	1.642	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.519	1.533	2.123	2.244	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.895	2.284	2.273	2.240	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.567	2.290	2.271	2.251	2.5	PASS
TX-ANH	FM	CH _{M2}	15	2.244	2.293	2.278	2.244	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.253	2.297	2.274	2.257	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

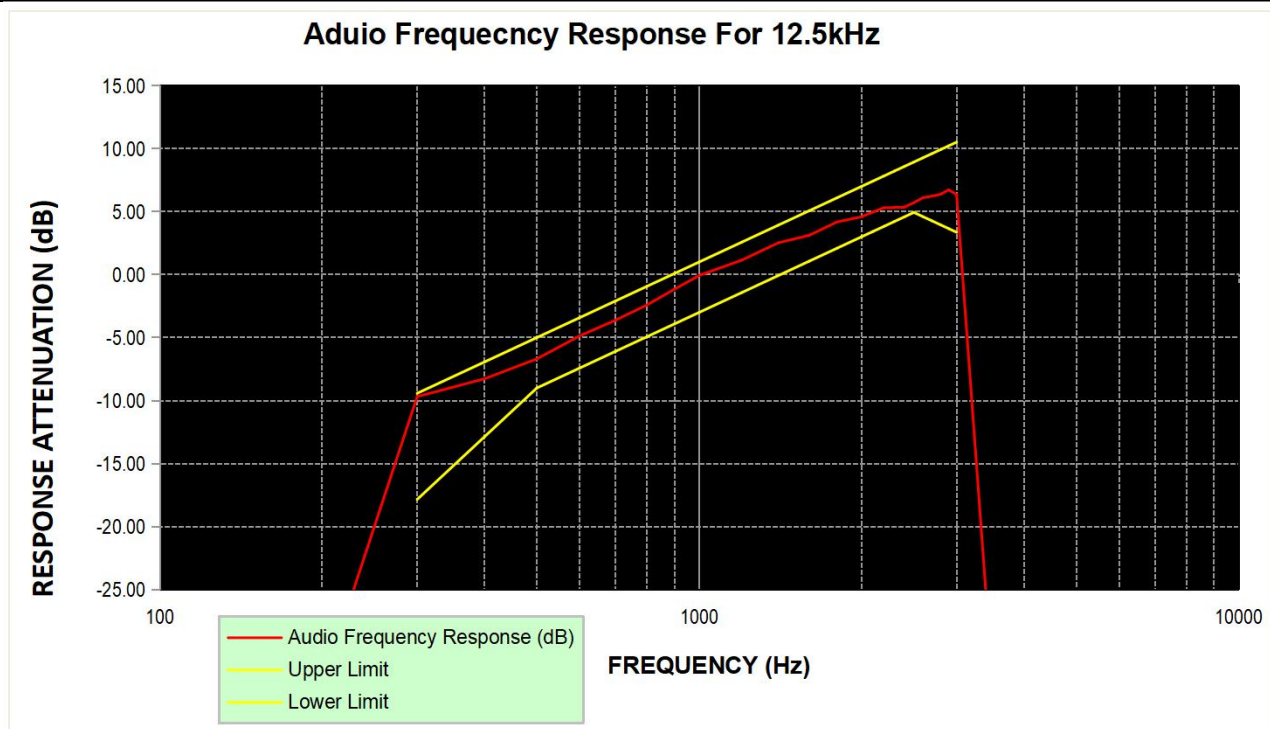


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-32.37			PASS
TX-ANH	FM	CH _{M2}	200	-32.57			PASS
TX-ANH	FM	CH _{M2}	300	-9.68	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.27	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.69	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.87	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.61	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.41	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.16	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.07	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.15	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.52	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.12	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.17	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	4.59	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	4.97	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.31	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.34	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.35	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.71	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.10	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	6.22	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	6.37	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.72	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.35	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-32.58			PASS
TX-ANH	FM	CH _{M2}	4000	-32.83			PASS
TX-ANH	FM	CH _{M2}	4500	-32.55			PASS
TX-ANH	FM	CH _{M2}	5000	-32.57			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-1.339	-1.351	-1.368	-1.193	-1.137	±2.5	PASS
TX-DNH	4FSK	V _N	-20	-1.293	-1.398	-1.346	-1.299	-1.135	±2.5	PASS
TX-DNH	4FSK	V _N	-10	-1.370	-1.406	-1.257	-1.222	-1.119	±2.5	PASS
TX-DNH	4FSK	V _N	0	-1.312	-1.364	-1.364	-1.216	-1.216	±2.5	PASS
TX-DNH	4FSK	V _N	10	-1.360	-1.375	-1.347	-1.303	-1.207	±2.5	PASS
TX-DNH	4FSK	V _N	20	-1.290	-1.291	-1.256	-1.185	-1.106	±2.5	PASS
TX-DNH	4FSK	V _N	30	-1.410	-1.397	-1.293	-1.235	-1.161	±2.5	PASS
TX-DNH	4FSK	V _N	40	-1.367	-1.371	-1.365	-1.251	-1.177	±2.5	PASS
TX-DNH	4FSK	V _N	50	-1.405	-1.389	-1.366	-1.229	-1.106	±2.5	PASS
TX-DNL	4FSK	V _N	-30	-1.351	-1.309	-1.328	-1.186	-1.179	±2.5	PASS
TX-DNL	4FSK	V _N	-20	-1.365	-1.283	-1.408	-1.206	-1.159	±2.5	PASS
TX-DNL	4FSK	V _N	-10	-1.385	-1.359	-1.397	-1.166	-1.203	±2.5	PASS
TX-DNL	4FSK	V _N	0	-1.386	-1.376	-1.296	-1.239	-1.113	±2.5	PASS
TX-DNL	4FSK	V _N	10	-1.390	-1.329	-1.357	-1.237	-1.113	±2.5	PASS
TX-DNL	4FSK	V _N	20	-1.305	-1.261	-1.280	-1.153	-1.100	±2.5	PASS
TX-DNL	4FSK	V _N	30	-1.433	-1.333	-1.365	-1.229	-1.176	±2.5	PASS
TX-DNL	4FSK	V _N	40	-1.403	-1.356	-1.330	-1.212	-1.121	±2.5	PASS
TX-DNL	4FSK	V _N	50	-1.390	-1.266	-1.364	-1.182	-1.159	±2.5	PASS
TX-ANH	FM	V _N	-30	-1.161	-1.044	-1.018	-1.024	-0.966	±2.5	PASS
TX-ANH	FM	V _N	-20	-1.202	-0.996	-1.075	-1.009	-0.948	±2.5	PASS
TX-ANH	FM	V _N	-10	-1.147	-1.010	-1.033	-0.978	-1.002	±2.5	PASS
TX-ANH	FM	V _N	0	-1.119	-0.993	-1.036	-1.065	-0.929	±2.5	PASS
TX-ANH	FM	V _N	10	-1.165	-1.000	-1.084	-1.051	-0.930	±2.5	PASS
TX-ANH	FM	V _N	20	-1.116	-0.987	-0.995	-0.977	-0.915	±2.5	PASS
TX-ANH	FM	V _N	30	-1.151	-1.056	-1.027	-0.998	-0.944	±2.5	PASS
TX-ANH	FM	V _N	40	-1.154	-1.023	-1.072	-0.990	-0.917	±2.5	PASS
TX-ANH	FM	V _N	50	-1.139	-1.061	-1.030	-1.013	-0.934	±2.5	PASS
TX-ANL	FM	V _N	-30	-1.137	-1.024	-1.072	-0.988	-0.959	±2.5	PASS
TX-ANL	FM	V _N	-20	-1.072	-1.049	-1.052	-0.958	-0.890	±2.5	PASS
TX-ANL	FM	V _N	-10	-1.086	-1.085	-1.023	-0.995	-0.878	±2.5	PASS
TX-ANL	FM	V _N	0	-1.097	-1.054	-1.011	-0.952	-0.897	±2.5	PASS
TX-ANL	FM	V _N	10	-1.148	-1.001	-1.048	-0.933	-0.954	±2.5	PASS
TX-ANL	FM	V _N	20	-1.048	-0.990	-0.994	-0.906	-0.874	±2.5	PASS
TX-ANL	FM	V _N	30	-1.092	-1.058	-1.018	-0.919	-0.875	±2.5	PASS
TX-ANL	FM	V _N	40	-1.126	-1.034	-1.093	-0.929	-0.912	±2.5	PASS
TX-ANL	FM	V _N	50	-1.117	-0.998	-1.041	-0.921	-0.935	±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	-1.290	-1.291	-1.256	-1.185	-1.106	±2.5	PASS
TX-DNH	4FSK	V _L	T _N	-1.296	-1.302	-1.257	-1.197	-1.116	±2.5	PASS
TX-DNH	4FSK	V _H	T _N	-1.369	-1.324	-1.300	-1.231	-1.126	±2.5	PASS
TX-DNL	4FSK	V _N	T _N	-1.305	-1.261	-1.280	-1.153	-1.100	±2.5	PASS
TX-DNL	4FSK	V _L	T _N	-1.323	-1.275	-1.302	-1.161	-1.120	±2.5	PASS
TX-DNL	4FSK	V _H	T _N	-1.382	-1.290	-1.287	-1.216	-1.110	±2.5	PASS
TX-ANH	FM	V _N	T _N	-1.116	-0.987	-0.995	-0.977	-0.915	±2.5	PASS
TX-ANH	FM	V _L	T _N	-1.118	-1.004	-1.004	-0.988	-0.927	±2.5	PASS
TX-ANH	FM	V _H	T _N	-1.149	-1.004	-1.019	-1.002	-0.937	±2.5	PASS
TX-ANL	FM	V _N	T _N	-1.048	-0.990	-0.994	-0.906	-0.874	±2.5	PASS
TX-ANL	FM	V _L	T _N	-1.064	-0.990	-1.003	-0.919	-0.884	±2.5	PASS
TX-ANL	FM	V _H	T _N	-1.069	-1.002	-1.014	-0.921	-0.900	±2.5	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TSG:JPR(17MHz) YIG Bypass 1 FM Time Domain

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TSO FPK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms 4 Result Summary <table><thead><tr><th></th><th>Carrier Power</th><th>Carrier Offset</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr></thead><tbody><tr><td>FM</td><td>21.64 dBm</td><td>-521.03 Hz</td><td>23.844 kHz</td><td>26.435 kHz</td><td>2.8181 kHz</td></tr></tbody></table> Analog Demod: Waiting for Trigger...		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	21.64 dBm	-521.03 Hz	23.844 kHz	26.435 kHz	2.8181 kHz
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	21.64 dBm	-521.03 Hz	23.844 kHz	26.435 kHz	2.8181 kHz										

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _L	MultiViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -50.08 dBm 800.020000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs.</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.58845 kHz</td><td>-87.79 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-79.92 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-23.43 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.19993 GHz</td><td>-55.14 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 JUL 2022 15:18:25	Range Low	Range Up	RBW	Frequency	Power Abs.	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.58845 kHz	-87.79 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-79.92 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-23.43 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.19993 GHz	-55.14 dBm	-200.00 dB
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9.000 kHz	150.000 kHz	1.000 kHz	24.58845 kHz	-87.79 dBm	-200.00 dB																												
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1.000 GHz	5.000 GHz	1.000 MHz	1.19993 GHz	-55.14 dBm	-200.00 dB																												
TX-DNH	4FSK	CH _{M1}	MultiViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -51.45 dBm 811.962000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs.</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.12197 kHz</td><td>-88.62 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-79.94 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-21.94 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21793 GHz</td><td>-56.26 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 JUL 2022 15:19:18	Range Low	Range Up	RBW	Frequency	Power Abs.	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	48.12197 kHz	-88.62 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.94 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.94 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21793 GHz	-56.26 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs.	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	48.12197 kHz	-88.62 dBm	-200.00 dB																												
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1.000 GHz	5.000 GHz	1.000 MHz	1.21793 GHz	-56.26 dBm	-200.00 dB																												
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -51.62 dBm 812.205000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs.</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>136.62411 kHz</td><td>-89.62 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-80.74 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-21.89 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21843 GHz</td><td>-56.46 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 JUL 2022 15:20:24	Range Low	Range Up	RBW	Frequency	Power Abs.	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	136.62411 kHz	-89.62 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.74 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.89 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21843 GHz	-56.46 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs.	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	136.62411 kHz	-89.62 dBm	-200.00 dB																												
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30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.89 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.21843 GHz	-56.46 dBm	-200.00 dB																												

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _{M3}	MultViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -50.35 dBm 876.011000 MHz SPURIOUS_LINE_A88_001 -40 dBm SPURIOUS_LINE_A88_001 M2 -40 dBm M2 0.0 kHz68704 pts500.0 MHz/5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.78959 kHz</td><td>-90.36 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-79.63 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>438.00866 MHz</td><td>-12.89 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.31405 GHz</td><td>-64.05 dBm</td><td>-200.00 dB</td></tr></table> Measuring...15:07:202215:21:00 Date: 15 JUL 2022 15:21:01	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-90.36 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-79.63 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-12.89 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.31405 GHz	-64.05 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-90.36 dBm	-200.00 dB																												
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TX-DNH	4FSK	CH _H	MultViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -50.82 dBm 909.968000 MHz SPURIOUS_LINE_A88_001 -40 dBm SPURIOUS_LINE_A88_001 M2 -40 dBm M2 0.0 kHz68704 pts500.0 MHz/5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-89.77 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-80.74 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>469.98734 MHz</td><td>-4.05 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>4.76482 GHz</td><td>-63.47 dBm</td><td>-200.00 dB</td></tr></table> Measuring...15:07:202215:21:33 Date: 15 JUL 2022 15:21:33	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-89.77 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.74 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	469.98734 MHz	-4.05 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.76482 GHz	-63.47 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
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TX-ANH	FM	CH _L	MultViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -49.75 dBm 800.020000 MHz SPURIOUS_LINE_A88_001 -40 dBm SPURIOUS_LINE_A88_001 M2 -40 dBm M2 0.0 kHz68704 pts500.0 MHz/5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-88.79 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-79.89 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-23.39 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.20006 GHz</td><td>-55.29 dBm</td><td>-200.00 dB</td></tr></table> Measuring...15:07:202215:13:50 Date: 15 JUL 2022 15:13:50	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-88.79 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.89 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-23.39 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.20006 GHz	-55.29 dBm	-200.00 dB
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _{M1}	MultiView Spectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -51.88 dBm 811.962000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-90.24 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-80.34 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-21.97 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21781 GHz</td><td>-56.13 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 JUL 2022 15:14:45	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-90.24 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-80.34 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.97 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21781 GHz	-56.13 dBm	-200.00 dB
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9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-90.24 dBm	-200.00 dB																												
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TX-ANH	FM	CH _{M2}	MultiView Spectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -51.48 dBm 812.205000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-88.07 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-79.60 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-21.88 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21843 GHz</td><td>-57.02 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 JUL 2022 15:15:20	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-88.07 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.60 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.88 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21843 GHz	-57.02 dBm	-200.00 dB
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TX-ANH	FM	CH _H	MultiViewSpectrum Ref Level 10.00 dBm Offset 10.50 dB Mode Auto Sweep 1 Spurious Emissions 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 0.0 kHz 68704 pts 500.0 MHz / 5.0 GHz MI[1] -50.76 dBm 939.968000 MHz SPURIOUS_LINE_288_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>At limit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.58845 kHz</td><td>-88.75 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-79.35 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>469.98734 MHz</td><td>-4.12 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>3.44499 GHz</td><td>-63.02 dBm</td><td>-200.00 dB</td></tr></tbody></table> Measuring... 15.07.2022 15:17:24 Date: 15 JUL 2022 15:17:25	Range Low	Range Up	RBW	Frequency	Power Abs	At limit	9.000 kHz	150.000 kHz	1.000 kHz	24.58845 kHz	-88.75 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.35 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	469.98734 MHz	-4.12 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	3.44499 GHz	-63.02 dBm	-200.00 dB
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----End of Report----