

Project No.	SHT2504045701W		
Test sample No.	YPHT25040457001	Model No.	R1000
Start date.	2025/5/6	Start date.	2025/5/7
Temperature	25.9℃	Humidity	52%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhu

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	5/6	PASS
B	Occupied Bandwidth	5/7	PASS
C	Emission Mask	5/7	PASS
D	Modulation Limit	5/7	PASS
E	Audio Frequency Response	5/7	PASS
F	Frequency Stability Test & Temperature	5/7	PASS
G	Frequency Stability Test & Voltage	5/7	PASS
H	Transmitter Frequency Behavior	5/7	PASS
I	Spurious Emission On Antenna Port	5/7	PASS

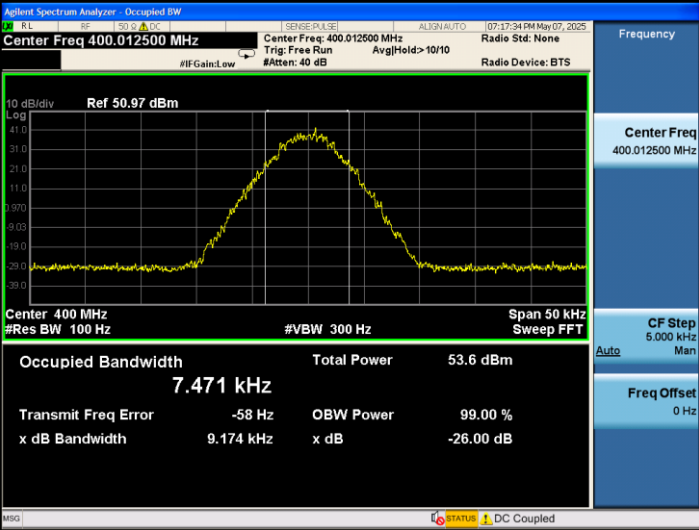
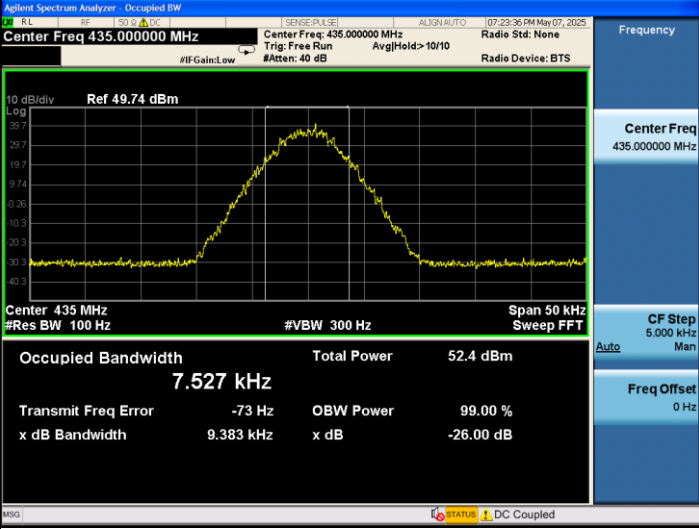
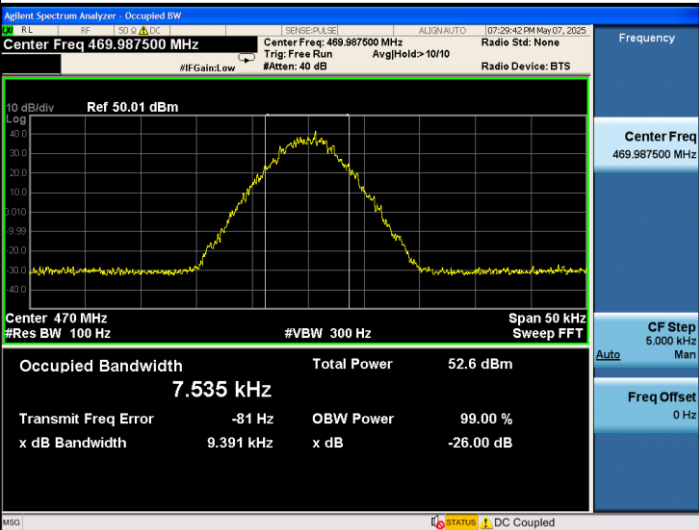
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage(%))	Limit (%)	Result
TX-DNH	4FSK	CH _L	46.89	48.87	50.00	-2.26	±20	PASS
TX-DNH	4FSK	CH _M	46.75	47.32	50.00	-5.36	±20	PASS
TX-DNH	4FSK	CH _H	46.74	47.21	50.00	-5.58	±20	PASS
TX-DNL	4FSK	CH _L	44.69	29.44	25.00	17.76	±20	PASS
TX-DNL	4FSK	CH _M	44.60	28.84	25.00	15.36	±20	PASS
TX-DNL	4FSK	CH _H	44.60	28.84	25.00	15.36	±20	PASS
TX-ANH	FM	CH _L	46.52	44.87	50.00	-10.26	±20	PASS
TX-ANH	FM	CH _M	46.51	44.77	50.00	-10.46	±20	PASS
TX-ANH	FM	CH _H	46.55	45.19	50.00	-9.62	±20	PASS
TX-ANL	FM	CH _L	44.35	27.23	25.00	8.92	±20	PASS
TX-ANL	FM	CH _M	44.35	27.23	25.00	8.92	±20	PASS
TX-ANL	FM	CH _H	44.39	27.48	25.00	9.92	±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	7.47	9.17	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.53	9.38	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.54	9.39	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.48	9.37	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.53	9.37	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.52	9.37	≤11.25	PASS
TX-ANH	FM	CH _L	9.96	10.16	≤11.25	PASS
TX-ANH	FM	CH _M	9.95	10.15	≤11.25	PASS
TX-ANH	FM	CH _H	9.97	10.16	≤11.25	PASS
TX-ANL	FM	CH _L	9.60	10.15	≤11.25	PASS
TX-ANL	FM	CH _M	9.97	10.16	≤11.25	PASS
TX-ANL	FM	CH _H	9.97	10.17	≤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 50.97 dBm Occupied Bandwidth 7.471 kHz Total Power 53.6 dBm Transmit Freq Error -58 Hz OBW Power 99.00 % x dB Bandwidth 9.174 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 49.74 dBm Occupied Bandwidth 7.527 kHz Total Power 52.4 dBm Transmit Freq Error -73 Hz OBW Power 99.00 % x dB Bandwidth 9.383 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 50.01 dBm Occupied Bandwidth 7.535 kHz Total Power 52.6 dBm Transmit Freq Error -81 Hz OBW Power 99.00 % x dB Bandwidth 9.391 kHz x dB -26.00 dB

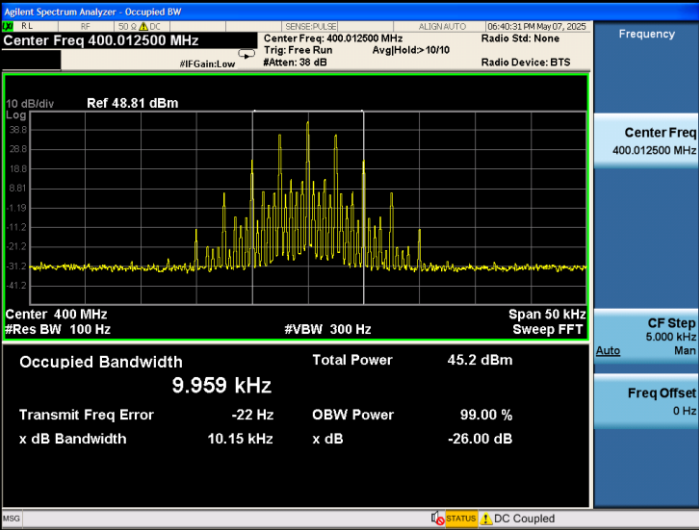
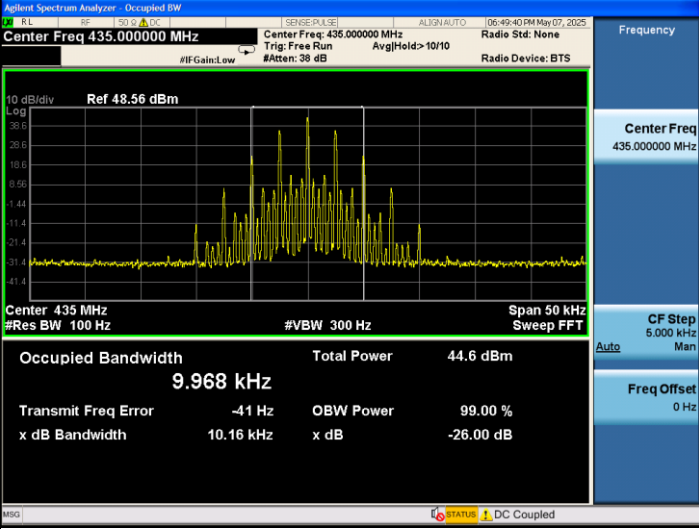
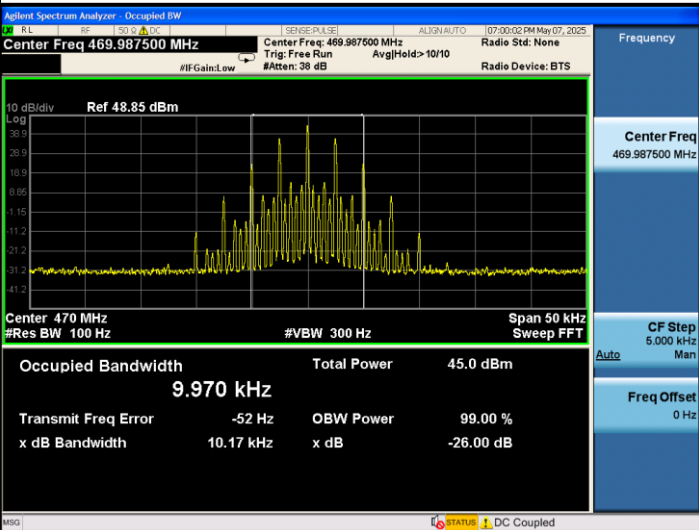
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Ref 47.94 dBm Occupied Bandwidth: 7.483 kHz Total Power: 50.6 dBm Transmit Freq Error: -67 Hz OBW Power: 99.00 % x dB Bandwidth: 9.369 kHz x dB: -26.00 dB
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq: 435.000000 MHz Ref 47.66 dBm Occupied Bandwidth: 7.534 kHz Total Power: 50.3 dBm Transmit Freq Error: -72 Hz OBW Power: 99.00 % x dB Bandwidth: 9.386 kHz x dB: -26.00 dB
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq: 469.987500 MHz Ref 47.93 dBm Occupied Bandwidth: 7.521 kHz Total Power: 50.6 dBm Transmit Freq Error: -81 Hz OBW Power: 99.00 % x dB Bandwidth: 9.374 kHz x dB: -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 49.98 dBm Occupied Bandwidth 9.962 kHz Total Power 46.1 dBm Transmit Freq Error -12 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 49.72 dBm Occupied Bandwidth 9.954 kHz Total Power 46.2 dBm Transmit Freq Error -30 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 50.01 dBm Occupied Bandwidth 9.970 kHz Total Power 46.0 dBm Transmit Freq Error -45 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 _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 48.81 dBm Occupied Bandwidth 9.959 kHz Total Power 45.2 dBm Transmit Freq Error -22 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB
TX-ANL	FM	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 48.56 dBm Occupied Bandwidth 9.968 kHz Total Power 44.6 dBm Transmit Freq Error -41 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 48.85 dBm Occupied Bandwidth 9.970 kHz Total Power 45.0 dBm Transmit Freq Error -52 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 RL RF 50 Ω AC SENSE: PULSE ALIGN: AUTO 07:19:10 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 400 MHz Span 120 kHz Spectrum Absolute Limit Relative Limit Total Power Ref 48.35 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>47.78</td><td>(-0.69)</td><td>-50.00</td><td>47.66</td><td>(-0.82)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.69</td><td>(-3.73)</td><td>-12.50 k</td><td>-26.60</td><td>(-4.00)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.95</td><td>(-5.95)</td><td>-12.65 k</td><td>-26.12</td><td>(-6.12)</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 <MASK.D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	47.78	(-0.69)	-50.00	47.66	(-0.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.69	(-3.73)	-12.50 k	-26.60	(-4.00)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.95	(-5.95)	-12.65 k	-26.12	(-6.12)	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-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Ω AC SENSE: PULSE ALIGN: AUTO 07:19:45 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 400 MHz Span 120 kHz Spectrum Absolute Limit Relative Limit Total Power Ref 53.04 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>39.89</td><td>(-8.58)</td><td>-950.0</td><td>43.06</td><td>(-5.42)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-24.25</td><td>(-2.02)</td><td>-12.40 k</td><td>-24.45</td><td>(-2.94)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.14</td><td>(-3.14)</td><td>-16.60 k</td><td>-23.35</td><td>(-3.35)</td><td>15.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></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 Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	39.89	(-8.58)	-950.0	43.06	(-5.42)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-24.25	(-2.02)	-12.40 k	-24.45	(-2.94)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.14	(-3.14)	-16.60 k	-23.35	(-3.35)	15.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Ω AC SENSE: PULSE ALIGN: AUTO 07:24:37 PM May 07, 2025 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 51.0 dBm 10 dB/div Log 41.0 31.0 21.0 11.0 1.00 9.00 19.0 29.0 39.0 Center 435 MHz Span 120 kHz Spectrum Absolute Limit Relative Limit Total Power Ref 46.50 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</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>46.50</td><td>(-0.75)</td><td>-50.00</td><td>45.81</td><td>(-1.45)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.60</td><td>(-5.33)</td><td>-12.10 k</td><td>-26.49</td><td>(-5.94)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.64</td><td>(-4.64)</td><td>-12.80 k</td><td>-24.63</td><td>(-4.63)</td><td>12.70 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> File <MASK.D.state> recalled STATUS Frequency Center Freq 435.000000 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	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	46.50	(-0.75)	-50.00	45.81	(-1.45)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.60	(-5.33)	-12.10 k	-26.49	(-5.94)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-24.64	(-4.64)	-12.80 k	-24.63	(-4.63)	12.70 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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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 _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 22 dB Ref 51.0 dBm	

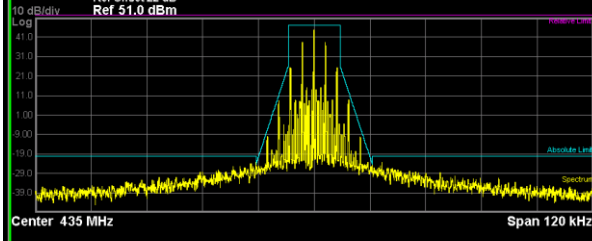
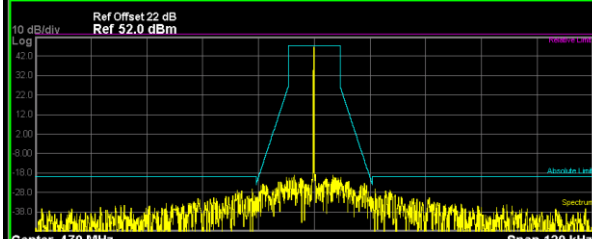
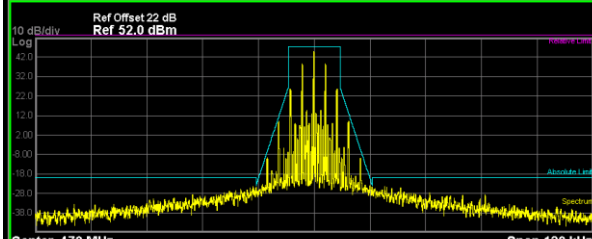
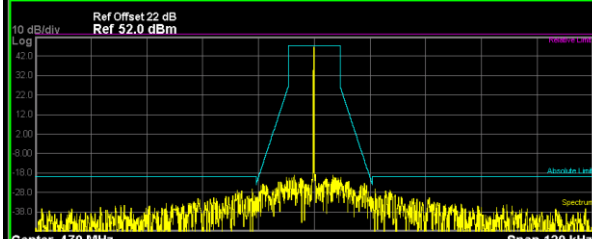
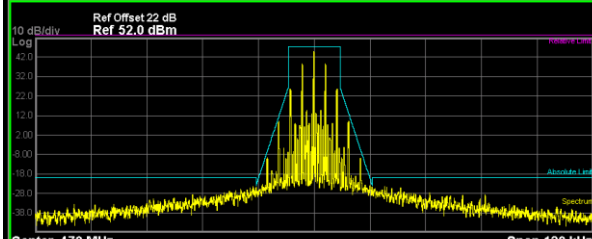
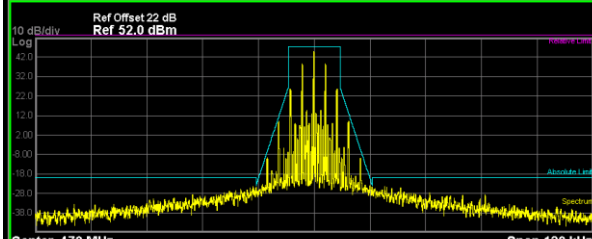
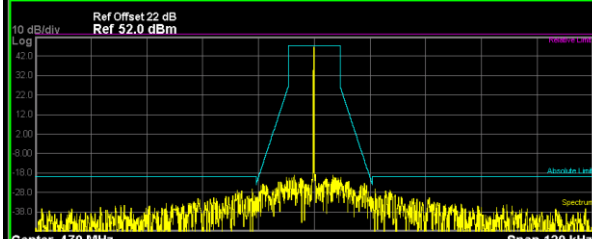
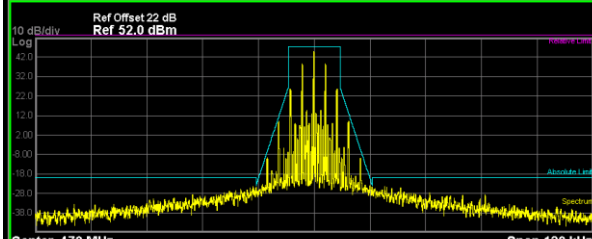
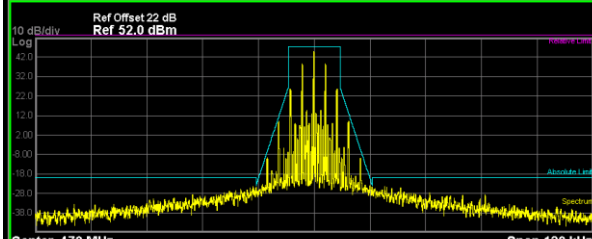
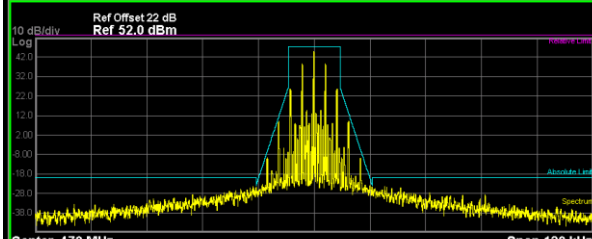
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 1 RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 07:21:23 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 45.30 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>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>44.71</td><td>(-0.73)</td><td>-50.00</td><td>44.63</td><td>(-0.80)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.84</td><td>(-5.29)</td><td>-12.30 k</td><td>-29.88</td><td>(-5.70)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.51</td><td>(-5.51)</td><td>-13.35 k</td><td>-25.63</td><td>(-5.63)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.71	(-0.73)	-50.00	44.63	(-0.80)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-29.84	(-5.29)	-12.30 k	-29.88	(-5.70)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.51	(-5.51)	-13.35 k	-25.63	(-5.63)	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)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 2 RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 07:21:56 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 49.48 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>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>36.58</td><td>(-8.86)</td><td>-950.0</td><td>40.00</td><td>(-5.44)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.19</td><td>(-3.19)</td><td>-12.50 k</td><td>-28.65</td><td>(-3.01)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.63</td><td>(-5.63)</td><td>-13.15 k</td><td>-25.21</td><td>(-5.21)</td><td>15.50 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> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.58	(-8.86)	-950.0	40.00	(-5.44)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-29.19	(-3.19)	-12.50 k	-28.65	(-3.01)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.63	(-5.63)	-13.15 k	-25.21	(-5.21)	15.50 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask 3 RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 07:27:38 PM May 07, 2025 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 49.0 dBm 10 dB/div Log 39.0 29.0 19.0 9.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 435 MHz Span 120 kHz Total Power Ref 44.40 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>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>44.40</td><td>(-0.76)</td><td>-50.00</td><td>43.84</td><td>(-1.32)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.99</td><td>(-4.43)</td><td>-12.40 k</td><td>-29.87</td><td>(-5.04)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.64</td><td>(-9.64)</td><td>-18.20 k</td><td>-29.39</td><td>(-9.39)</td><td>18.10 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></table> File <MASK D.state> recalled STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.40	(-0.76)	-50.00	43.84	(-1.32)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-29.99	(-4.43)	-12.40 k	-29.87	(-5.04)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.64	(-9.64)	-18.20 k	-29.39	(-9.39)	18.10 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 49.0 dBm 10 dB/div Log

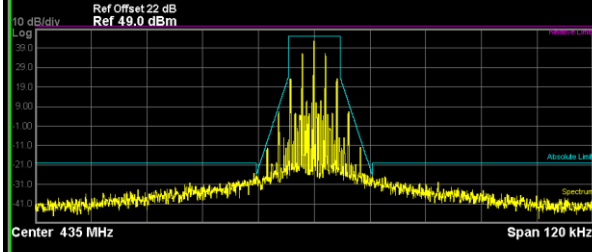
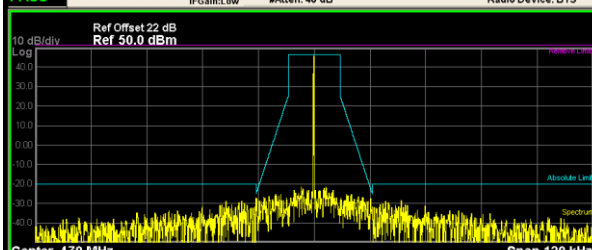
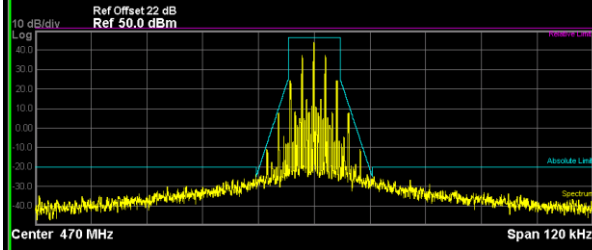
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 51.0 dBm  Total Power Ref 46.94 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>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>44.83</td><td>(-2.39)</td><td>-50.00</td><td>44.72</td><td>(-2.50)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-24.92</td><td>(-0.70)</td><td>-12.50 k</td><td>-24.64</td><td>(-0.42)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.29</td><td>(-3.29)</td><td>-12.55 k</td><td>-23.31</td><td>(-3.31)</td><td>14.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 52.0 dBm  Total Power Ref 46.76 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>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>46.77</td><td>(-0.75)</td><td>-50.00</td><td>45.92</td><td>(-1.61)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.29</td><td>(-6.37)</td><td>-12.50 k</td><td>-30.39</td><td>(-7.20)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.20</td><td>(-6.20)</td><td>-13.25 k</td><td>-26.26</td><td>(-6.26)</td><td>13.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 52.0 dBm  Total Power Ref 46.77 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>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>45.06</td><td>(-2.44)</td><td>-50.00</td><td>44.55</td><td>(-2.96)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-24.60</td><td>(-0.67)</td><td>-12.50 k</td><td>-24.77</td><td>(-0.84)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.29</td><td>(-4.29)</td><td>-13.10 k</td><td>-24.39</td><td>(-4.39)</td><td>15.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr></td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.83	(-2.39)	-50.00	44.72	(-2.50)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-24.92	(-0.70)	-12.50 k	-24.64	(-0.42)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.29	(-3.29)	-12.55 k	-23.31	(-3.31)	14.60 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	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - 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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RF IF 500 kHz AC SENSE PULSE ALIGN AUTO 06:40:59 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm 10 dB/div Log 40.0 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 46.16 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>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>45.60</td><td>(-0.70)</td><td>0.0</td><td>45.60</td><td>(-0.70)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-24.92</td><td>(-4.52)</td><td>-11.85 k</td><td>-24.86</td><td>(-4.82)</td><td>11.80 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.28</td><td>(-6.28)</td><td>-15.35 k</td><td>-26.38</td><td>(-6.38)</td><td>15.30 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 Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RF IF 500 kHz AC SENSE PULSE ALIGN AUTO 06:41:19 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm 10 dB/div Log 40.0 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 46.07 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>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>43.93</td><td>(-2.37)</td><td>0.0</td><td>43.93</td><td>(-2.37)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.70</td><td>(-1.57)</td><td>-12.50 k</td><td>-27.87</td><td>(-2.74)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.16</td><td>(-5.16)</td><td>-14.10 k</td><td>-25.79</td><td>(-5.79)</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 Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_M</td><td> Agilent Spectrum Analyzer - 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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RF IF 500 kHz AC SENSE PULSE ALIGN AUTO 06:41:19 PM May 07, 2025 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm 10 dB/div Log 40.0 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 46.07 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>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>43.93</td><td>(-2.37)</td><td>0.0</td><td>43.93</td><td>(-2.37)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.70</td><td>(-1.57)</td><td>-12.50 k</td><td>-27.87</td><td>(-2.74)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.16</td><td>(-5.16)</td><td>-14.10 k</td><td>-25.79</td><td>(-5.79)</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 Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_M</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RF IF 500 kHz AC SENSE PULSE ALIGN AUTO 06:50:10 PM May 07, 2025 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm 10 dB/div Log 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Center 435 MHz Span 120 kHz Total Power Ref 45.92 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>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>45.33</td><td>(-0.73)</td><td>-50.00</td><td>45.13</td><td>(-0.92)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-28.95</td><td>(-3.93)</td><td>-12.45 k</td><td>-29.03</td><td>(-4.38)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-28.28</td><td>(-8.28)</td><td>-13.60 k</td><td>-28.31</td><td>(-8.31)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 435.000000 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)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	43.93	(-2.37)	0.0	43.93	(-2.37)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.70	(-1.57)	-12.50 k	-27.87	(-2.74)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.16	(-5.16)	-14.10 k	-25.79	(-5.79)	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	—	(—)	—	—	(—)	—	TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RF IF 500 kHz AC SENSE PULSE ALIGN AUTO 06:50:10 PM May 07, 2025 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm 10 dB/div Log 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Center 435 MHz Span 120 kHz Total Power Ref 45.92 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>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>45.33</td><td>(-0.73)</td><td>-50.00</td><td>45.13</td><td>(-0.92)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-28.95</td><td>(-3.93)</td><td>-12.45 k</td><td>-29.03</td><td>(-4.38)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-28.28</td><td>(-8.28)</td><td>-13.60 k</td><td>-28.31</td><td>(-8.31)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	45.33	(-0.73)	-50.00	45.13	(-0.92)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-28.95	(-3.93)	-12.45 k	-29.03	(-4.38)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-28.28	(-8.28)	-13.60 k	-28.31	(-8.31)	13.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																			
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Appendix C:Emission Mask

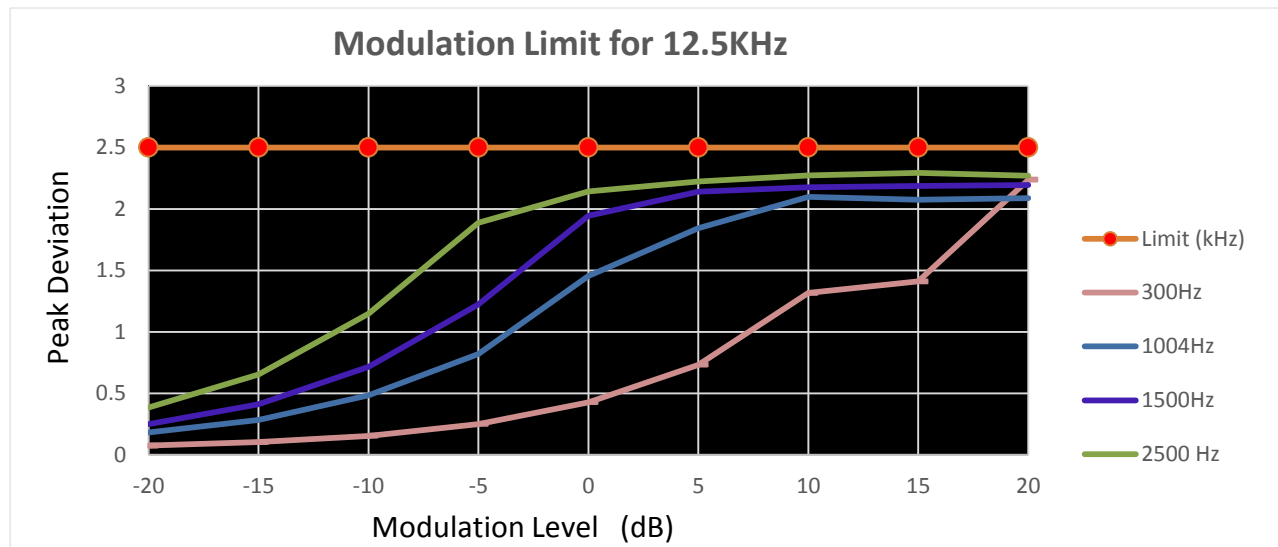
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RF SENSE PULSE ALIGN AUTO 07:07:19 PM May 07, 2025 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 49.0 dBm  Center 435 MHz Span 120 kHz Total Power Ref 44.84 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>42.74</td><td>(-2.41)</td><td>-50.00</td><td>42.50</td><td>(-2.65)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.80</td><td>(-1.97)</td><td>-12.30 k</td><td>-26.56</td><td>(-0.27)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.19</td><td>(-5.19)</td><td>-12.85 k</td><td>-26.59</td><td>(-6.59)</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> File <Temp.png> saved STATUS Frequency Center Freq 435.000000 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	42.74	(-2.41)	-50.00	42.50	(-2.65)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.80	(-1.97)	-12.30 k	-26.56	(-0.27)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.19	(-5.19)	-12.85 k	-26.59	(-6.59)	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-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RF SENSE PULSE ALIGN AUTO 07:00:33 PM May 07, 2025 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 22 dB Ref 50.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 45.62 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>45.63</td><td>(-0.72)</td><td>-50.00</td><td>44.03</td><td>(-2.32)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-27.32</td><td>(-3.69)</td><td>-12.30 k</td><td>-27.45</td><td>(-4.55)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.03</td><td>(-7.03)</td><td>-12.55 k</td><td>-28.37</td><td>(-8.37)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	45.63	(-0.72)	-50.00	44.03	(-2.32)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-27.32	(-3.69)	-12.30 k	-27.45	(-4.55)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-27.03	(-7.03)	-12.55 k	-28.37	(-8.37)	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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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RF SENSE PULSE ALIGN AUTO 07:00:55 PM May 07, 2025 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 22 dB Ref 50.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 45.62 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>43.92</td><td>(-2.43)</td><td>-50.00</td><td>42.52</td><td>(-3.83)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-27.75</td><td>(-2.67)</td><td>-12.50 k</td><td>-26.16</td><td>(-1.07)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.90</td><td>(-3.90)</td><td>-12.55 k</td><td>-25.15</td><td>(-5.15)</td><td>12.85 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></table> File <Temp.png> saved STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	43.92	(-2.43)	-50.00	42.52	(-3.83)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-27.75	(-2.67)	-12.50 k	-26.16	(-1.07)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.90	(-3.90)	-12.55 k	-25.15	(-5.15)	12.85 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	—	(—)	—	—	(—)	—
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 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 _M	-20	0.075	0.182	0.25	0.385	2.5	PASS
TX-ANH	FM	CH _M	-15	0.104	0.284	0.412	0.654	2.5	PASS
TX-ANH	FM	CH _M	-10	0.155	0.485	0.716	1.149	2.5	PASS
TX-ANH	FM	CH _M	-5	0.251	0.820	1.224	1.886	2.5	PASS
TX-ANH	FM	CH _M	0	0.428	1.455	1.944	2.143	2.5	PASS
TX-ANH	FM	CH _M	5	0.732	1.844	2.139	2.223	2.5	PASS
TX-ANH	FM	CH _M	10	1.317	2.099	2.175	2.272	2.5	PASS
TX-ANH	FM	CH _M	15	1.410	2.074	2.186	2.293	2.5	PASS
TX-ANH	FM	CH _M	20	2.237	2.087	2.195	2.270	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

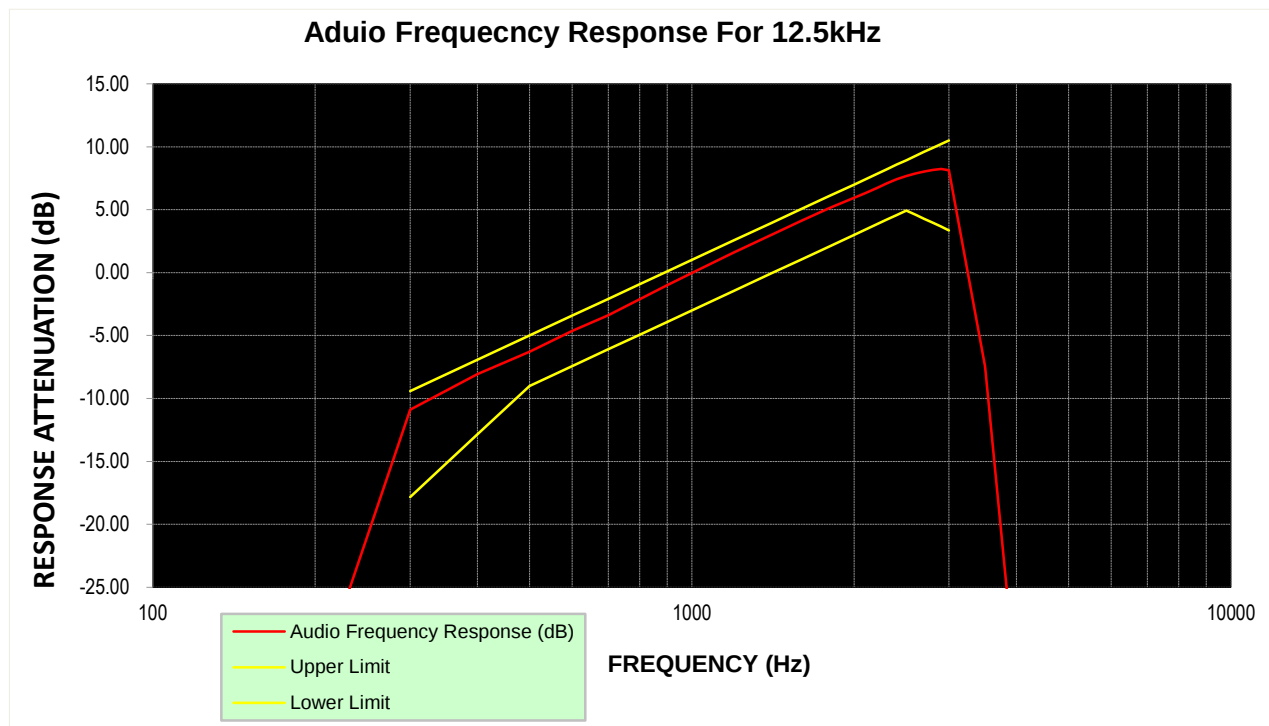


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-33.19			PASS
TX-ANH	FM	CH _M	200	-33.19			PASS
TX-ANH	FM	CH _M	300	-10.88	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-8.08	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-6.29	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-4.63	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.39	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-2.12	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-1.00	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	-0.02	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.63	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	2.97	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	4.15	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	5.13	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	5.94	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	6.32	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	6.70	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	7.09	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	7.43	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	7.68	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	7.87	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	8.03	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	8.16	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	8.23	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	8.14	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	-7.46			PASS
TX-ANH	FM	CH _M	4000	-33.08			PASS
TX-ANH	FM	CH _M	4500	-33.14			PASS
TX-ANH	FM	CH _M	5000	-33.08			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



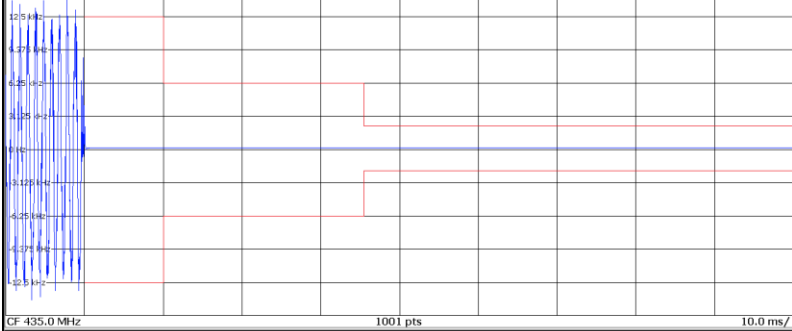
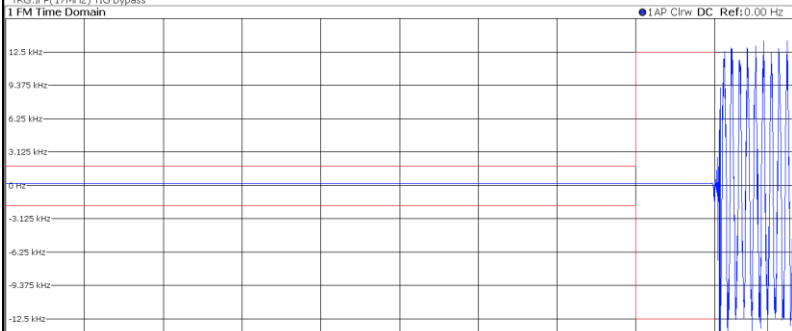
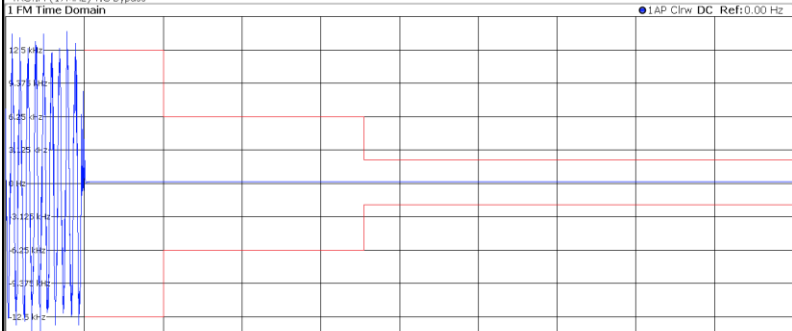
Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	-30	-0.011	-0.126	-0.068	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.010	-0.128	-0.068	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.010	-0.132	-0.065	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.011	-0.122	-0.065	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.010	-0.133	-0.065	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.010	-0.122	-0.063	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.010	-0.122	-0.065	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.011	-0.122	-0.066	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.010	-0.125	-0.064	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.100	-0.131	-0.137	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.093	-0.121	-0.138	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.095	-0.120	-0.130	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.096	-0.122	-0.129	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.097	-0.121	-0.134	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.093	-0.120	-0.129	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.102	-0.129	-0.142	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.099	-0.120	-0.129	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.100	-0.123	-0.135	±5.0	PASS
TX-ANH	FM	V _N	-30	-0.009	-0.042	-0.042	±5.0	PASS
TX-ANH	FM	V _N	-20	-0.009	-0.043	-0.038	±5.0	PASS
TX-ANH	FM	V _N	-10	-0.009	-0.042	-0.039	±5.0	PASS
TX-ANH	FM	V _N	0	-0.010	-0.043	-0.038	±5.0	PASS
TX-ANH	FM	V _N	10	-0.009	-0.040	-0.041	±5.0	PASS
TX-ANH	FM	V _N	20	-0.009	-0.040	-0.038	±5.0	PASS
TX-ANH	FM	V _N	30	-0.009	-0.043	-0.041	±5.0	PASS
TX-ANH	FM	V _N	40	-0.009	-0.043	-0.039	±5.0	PASS
TX-ANH	FM	V _N	50	-0.009	-0.044	-0.040	±5.0	PASS
TX-ANL	FM	V _N	-30	0.007	-0.047	-0.036	±5.0	PASS
TX-ANL	FM	V _N	-20	0.007	-0.048	-0.038	±5.0	PASS
TX-ANL	FM	V _N	-10	0.007	-0.045	-0.036	±5.0	PASS
TX-ANL	FM	V _N	0	0.008	-0.046	-0.038	±5.0	PASS
TX-ANL	FM	V _N	10	0.007	-0.045	-0.038	±5.0	PASS
TX-ANL	FM	V _N	20	0.007	-0.045	-0.035	±5.0	PASS
TX-ANL	FM	V _N	30	0.008	-0.047	-0.037	±5.0	PASS
TX-ANL	FM	V _N	40	0.007	-0.048	-0.038	±5.0	PASS
TX-ANL	FM	V _N	50	0.008	-0.047	-0.036	±5.0	PASS

Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.010	-0.122	-0.063	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.010	-0.124	-0.064	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.010	-0.126	-0.065	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.093	-0.120	-0.129	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.094	-0.121	-0.131	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.094	-0.127	-0.136	±5.0	PASS
TX-ANH	FM	V _N	T _N	-0.009	-0.040	-0.038	±5.0	PASS
TX-ANH	FM	V _L	T _N	-0.009	-0.041	-0.039	±5.0	PASS
TX-ANH	FM	V _H	T _N	-0.009	-0.042	-0.040	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.007	-0.045	-0.035	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.007	-0.046	-0.035	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.007	-0.046	-0.036	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT														
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 49.50 dBm Offset 20.00 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFP(17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz  CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 34.47 dBm Carrier Offset 130.48 Hz <table><tr><th>+Peak</th><th>-Peak</th><th>+Peak/2</th><th>RMS</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM 14.209 kHz</td><td>-14.189 kHz</td><td>14.199 kHz</td><td>2.6962 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 07.05.2025 22:07:46 Date: 7 MAY 2025 22:07:47 OFF~ON	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM 14.209 kHz	-14.189 kHz	14.199 kHz	2.6962 kHz	---	---	---
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD											
FM 14.209 kHz	-14.189 kHz	14.199 kHz	2.6962 kHz	---	---	---											
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 49.50 dBm Offset 20.00 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFP(17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz  CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 34.48 dBm Carrier Offset 131.57 Hz <table><tr><th>+Peak</th><th>-Peak</th><th>+Peak/2</th><th>RMS</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM 13.544 kHz</td><td>-18.527 kHz</td><td>16.035 kHz</td><td>2.6827 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 07.05.2025 22:09:08 Date: 7 MAY 2025 22:09:08 ON~OFF	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM 13.544 kHz	-18.527 kHz	16.035 kHz	2.6827 kHz	---	---	---
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD											
FM 13.544 kHz	-18.527 kHz	16.035 kHz	2.6827 kHz	---	---	---											
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 49.50 dBm Offset 20.00 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFP(17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz  CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 34.47 dBm Carrier Offset 130.48 Hz <table><tr><th>+Peak</th><th>-Peak</th><th>+Peak/2</th><th>RMS</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM 14.209 kHz</td><td>-14.189 kHz</td><td>14.199 kHz</td><td>2.6962 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 07.05.2025 22:02:46 Date: 7 MAY 2025 22:02:47 OFF~ON	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM 14.209 kHz	-14.189 kHz	14.199 kHz	2.6962 kHz	---	---	---
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD											
FM 14.209 kHz	-14.189 kHz	14.199 kHz	2.6962 kHz	---	---	---											

Appendix H:Transmitter Frequency Behavior

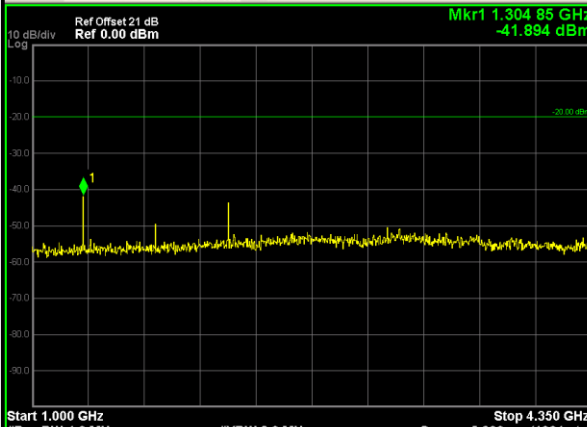
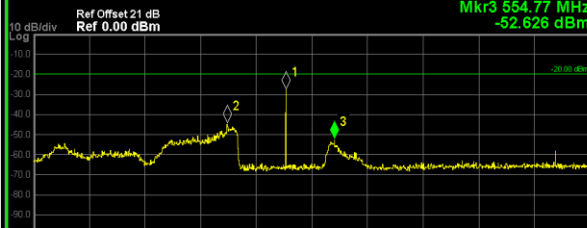
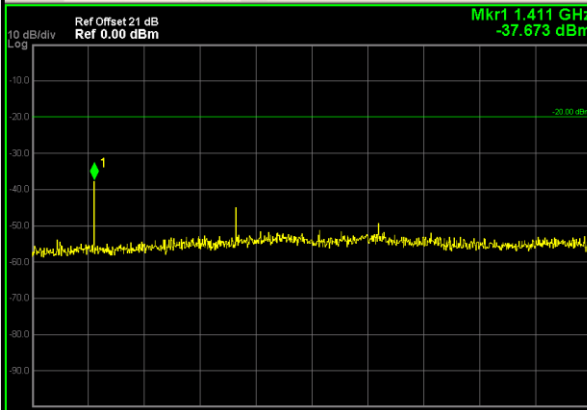
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-ANH	FM	CH _M	MultiView Spectrum Analog Demod Ref Level 49.50 dBm Att 39 dB Offset 20.00 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRIG: JFET (17MHz) YIG Bypass 1 FM Time Domain 1AP Clrw DC Ref:0.00 Hz 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms/ CF 435.0 MHz Carrier Power 34.48 dBm Carrier Offset 131.57 Hz 4 Result Summary <table><tr><td></td><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>13.544 kHz</td><td>-18.527 kHz</td><td>16.035 kHz</td><td>2.6827 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 07.05.2025 22:02:08 ON-OFF		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	13.544 kHz	-18.527 kHz	16.035 kHz	2.6827 kHz	---	---	---
	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD												
FM	13.544 kHz	-18.527 kHz	16.035 kHz	2.6827 kHz	---	---	---												

ON-OFF

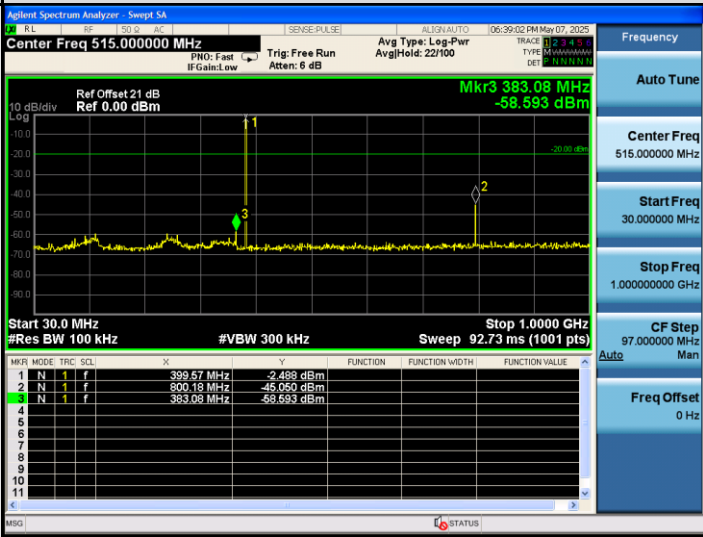
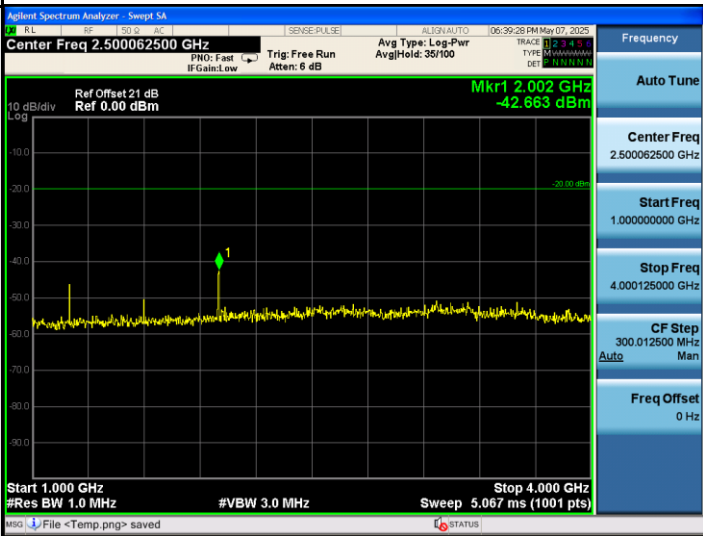
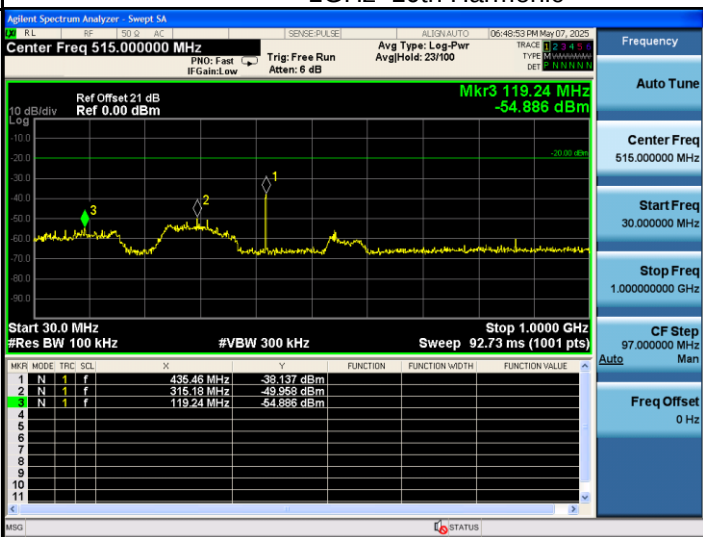
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Sweep 5A RL RF SO Q AC SENSE: PULSE ALIGN: AUTO 07:19:11 PM May 07, 2025 Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Leg-Pwr Avg/Hold: 22/100 TRACE 1 2 3 4 5 TYPE: MAMMMMMM DET: RFLIM Ref Offset 21 dB Ref 0.00 dBm Mkr3 383.08 MHz -56.968 dBm 10 dB/div Log -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>399.57 MHz</td><td>-1.402 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>800.18 MHz</td><td>-43.794 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>383.08 MHz</td><td>-56.968 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MIG STATUS Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz 30MHz~1GHz	MKR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz	-1.402 dBm				2	N	1	f	800.18 MHz	-43.794 dBm				3	N	1	f	383.08 MHz	-56.968 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Sweep 5A RL RF SO Q AC SENSE: PULSE ALIGN: AUTO 07:19:18 PM May 07, 2025 Center Freq 2.500062500 GHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Leg-Pwr Avg/Hold: 35/100 TRACE 1 2 3 4 5 TYPE: MAMMMMMM DET: RFLIM Ref Offset 21 dB Ref 0.00 dBm Mkr1 2.002 GHz -42.736 dBm 10 dB/div Log -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.000 GHz Sweep 5.067 ms (1001 pts) MIG File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Man Freq Offset 0 Hz 1GHz~10th Harmonic																																																																																																												
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Sweep 5A RL RF SO Q AC SENSE: PULSE ALIGN: AUTO 07:25:38 PM May 07, 2025 Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Leg-Pwr Avg/Hold: 23/100 TRACE 1 2 3 4 5 TYPE: MAMMMMMM DET: RFLIM Ref Offset 21 dB Ref 0.00 dBm Mkr3 119.24 MHz -53.304 dBm 10 dB/div Log -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>435.46 MHz</td><td>-38.277 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>315.18 MHz</td><td>-49.860 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>119.24 MHz</td><td>-53.304 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> MIG STATUS Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz 30MHz~1GHz	MKR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	435.46 MHz	-38.277 dBm				2	N	1	f	315.18 MHz	-49.860 dBm				3	N	1	f	119.24 MHz	-53.304 dBm				4									5									6									7									8									9									10									11								
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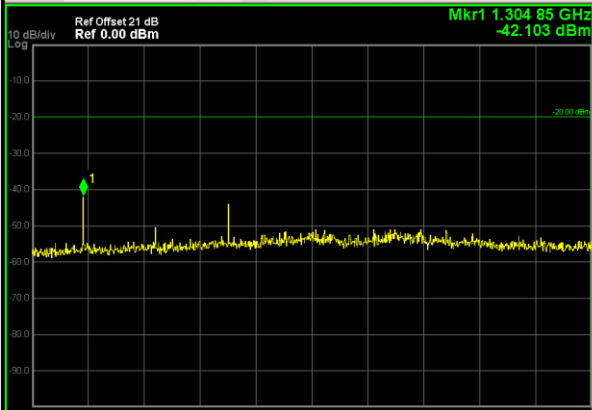
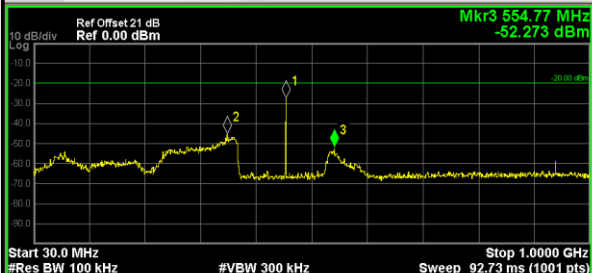
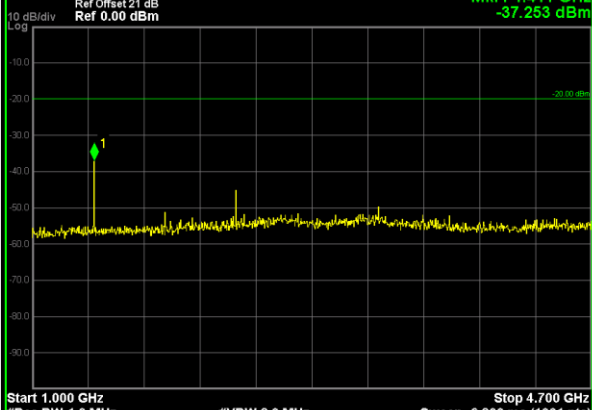
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Swept SA RL RF 100 kHz AC SENSE: PULSE ALIGN: AUTO 07:25:46 PM May 07, 2025 Center Freq 2.675000000 GHz PN0: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Leg-Pwr Avg/Hold: 33/100 TRACE 1 2 3 4 5 TYPE: M W W W W W W W W DET: M W W W W W W W Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.304 85 GHz -41.894 dBm  Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.600 ms (1001 pts) MSG File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.675000000 GHz Start Freq 1.000000000 GHz Stop Freq 4.350000000 GHz CF Step 335.000000 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																																																																																												
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Swept SA RL RF 100 kHz AC SENSE: PULSE ALIGN: AUTO 07:31:28 PM May 07, 2025 Center Freq 515.0000000 MHz PN0: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Leg-Pwr Avg/Hold: 22/100 TRACE 1 2 3 4 5 TYPE: M W W W W W W W W DET: M W W W W W W W Ref Offset 21 dB Ref 0.00 dBm Mkr3 554.77 MHz -52.626 dBm  Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) MSG File <Temp.png> saved STATUS <table><thead><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>470.38 MHz</td><td>-27.848 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>367.56 MHz</td><td>-44.733 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>554.77 MHz</td><td>-52.626 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz	-27.848 dBm				2	N	1	f	367.56 MHz	-44.733 dBm				3	N	1	f	554.77 MHz	-52.626 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Swept SA RL RF 100 kHz AC SENSE: PULSE ALIGN: AUTO 07:31:31 PM May 07, 2025 Center Freq 2.849937500 GHz PN0: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Leg-Pwr Avg/Hold: 33/100 TRACE 1 2 3 4 5 TYPE: M W W W W W W W W DET: M W W W W W W W Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.411 GHz -37.673 dBm  Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts) MSG File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz																																																																																																												
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Appendix I:Spurious Emission On Antenna Port

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

Appendix I:Spurious Emission On Antenna Port

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TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Swept SA Center Freq 2.675000000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.304 85 GHz -42.103 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.600 ms (1001 pts)  Frequency Auto Tune Center Freq 2.675000000 GHz Start Freq 1.000000000 GHz Stop Freq 4.350000000 GHz CF Step 335.000000 MHz Auto Freq Offset 0 Hz 1GHz~10th Harmonic																																				
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 554.77 MHz -52.273 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)  <table><thead><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>470.38 MHz</td><td>-27.804 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>367.56 MHz</td><td>-45.603 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>554.77 MHz</td><td>-52.273 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz 30MHz~1GHz	MKR	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz	-27.804 dBm				2	N	1	f	367.56 MHz	-45.603 dBm				3	N	1	f	554.77 MHz	-52.273 dBm			
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