

Project No.	SHT2305025604EW		
Test sample No.	YPHT23050256001	Model No.	TC368
Start test date	2023/6/20	Finish date	2023/9/7
Temperature	25.3℃	Humidity	49%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Transmitting Power	9/7	PASS
B	99% Occupied Bandwidth & 26dB Bandwidth	9/7	PASS
C	Emission Mask	9/7	PASS
D	Modulation Limit	9/7	PASS
E	Audio Frequency Response	9/7	PASS
F	Audio Low Pass Filter Response	9/7	PASS
G	Frequency Stability Test & Temperature	9/7	PASS
H	Frequency Stability Test & Voltage	9/7	PASS

Appendix A: Transmitting Power

Test Mode	Modulation Type	Test Channel	Measured power (dBm)	Measured power (W)	Limit(W)	Result
TX-GMRS	FM	CH _{M1}	32.51	1.78	≤5	PASS
TX-GMRS	FM	CH _{M2}	25.87	0.39	≤0.5	PASS
TX-GMRS	FM	CH _{M3}	32.21	1.66	≤50	PASS
TX-GMRS	FM	CH _{M4}	32.15	1.64	≤50	PASS

Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth

Test Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-GMRS	FM	CH _{M1}	14.855	15.17	≤20	PASS
TX-GMRS	FM	CH _{M2}	9.878	10.14	≤12.5	PASS
TX-GMRS	FM	CH _{M3}	14.852	15.17	≤20	PASS
TX-GMRS	FM	CH _{M4}	14.855	15.17	≤20	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-GMRS	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 462.637500 MHz Center Freq: 462.637500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 35.61 dBm Center 462.6 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 14.855 kHz Total Power 32.0 dBm Transmit Freq Error -190 Hz OBW Power 99.00 % x dB Bandwidth 15.17 kHz x dB -26.00 dB Frequency 462.637500 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-GMRS	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 467.637500 MHz Center Freq: 467.637500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 28.84 dBm Center 467.6 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.878 kHz Total Power 25.0 dBm Transmit Freq Error -99 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB Frequency 467.637500 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-GMRS	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 462.650000 MHz Center Freq: 462.650000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 35.83 dBm Center 462.7 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 14.852 kHz Total Power 32.0 dBm Transmit Freq Error -187 Hz OBW Power 99.00 % x dB Bandwidth 15.17 kHz x dB -26.00 dB Frequency 462.650000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled

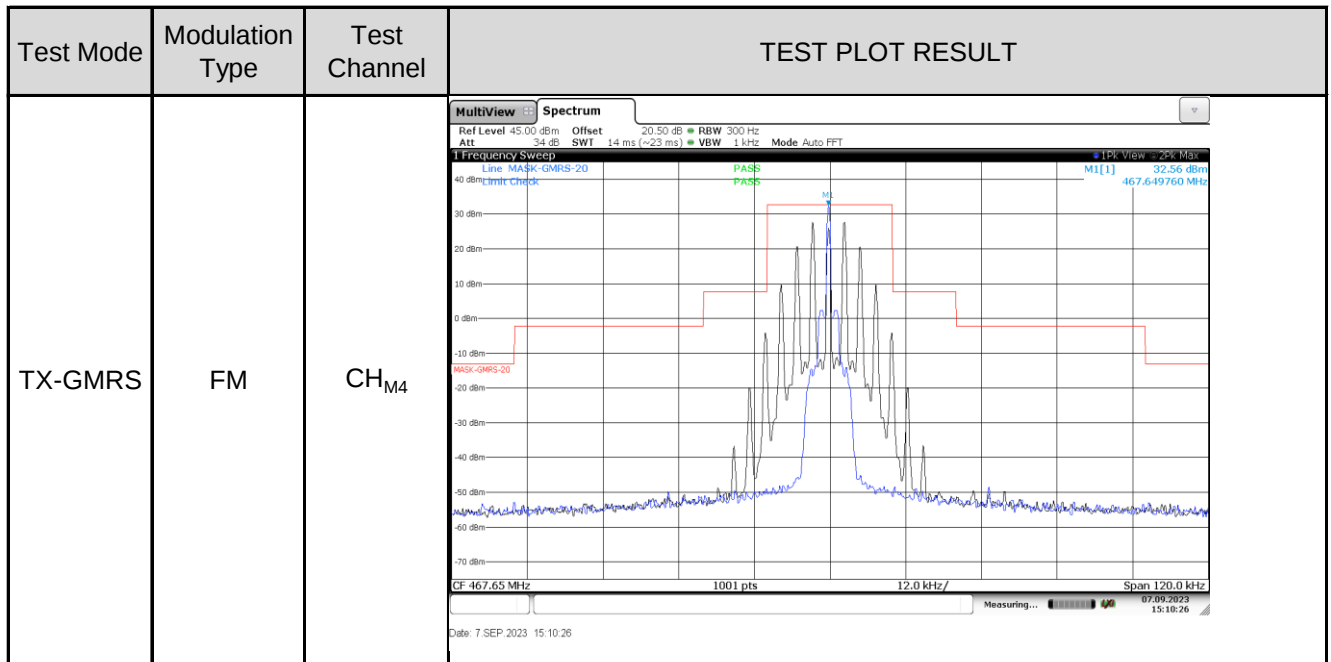
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-GMRS	FM	CH _{M4}	Agilent Spectrum Analyzer - Occupied BW Center Freq 467.650000 MHz Center Freq: 467.650000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 26 dB Frequency Center Freq 467.650000 MHz CF Step 5.000 kHz Freq Offset 0 Hz 10 dB/div Ref 35.72 dBm Center 467.7 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 14.855 kHz Total Power 31.8 dBm Transmit Freq Error -189 Hz OBW Power 99.00 % x dB Bandwidth 15.17 kHz x dB -26.00 dB MSG STATUS DC Coupled

Appendix C:Emission Mask

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-GMRS	FM	CH _{M1}	MultiView Spectrum Ref Level 45.00 dBm Offset 20.50 dB RBW 300 Hz Att 34 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT 1 Frequency Sweep Limit Check Line MASK-GMRS-20 M1[1] 32.57 dBm 462.637260 MHz CF 462.6375 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Date: 7 SEP 2023 15:13:08
TX-GMRS	FM	CH _{M2}	MultiView Spectrum Ref Level 45.00 dBm Offset 20.50 dB RBW 300 Hz Att 34 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT 1 Frequency Sweep Limit Check Line MASK-GMRS-12.5K M1[1] 25.18 dBm 467.637380 MHz CF 467.6375 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Date: 29 JUN 2023 15:53:47
TX-GMRS	FM	CH _{M3}	MultiView Spectrum Ref Level 45.00 dBm Offset 20.50 dB RBW 300 Hz Att 34 dB SWI 14 ms (~23 ms) VBW 1 kHz Mode Auto FFT 1 Frequency Sweep Limit Check Line MASK-GMRS-20 M1[1] 32.55 dBm 462.649760 MHz CF 462.65 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Date: 7 SEP 2023 15:11:59

Appendix C:Emission Mask



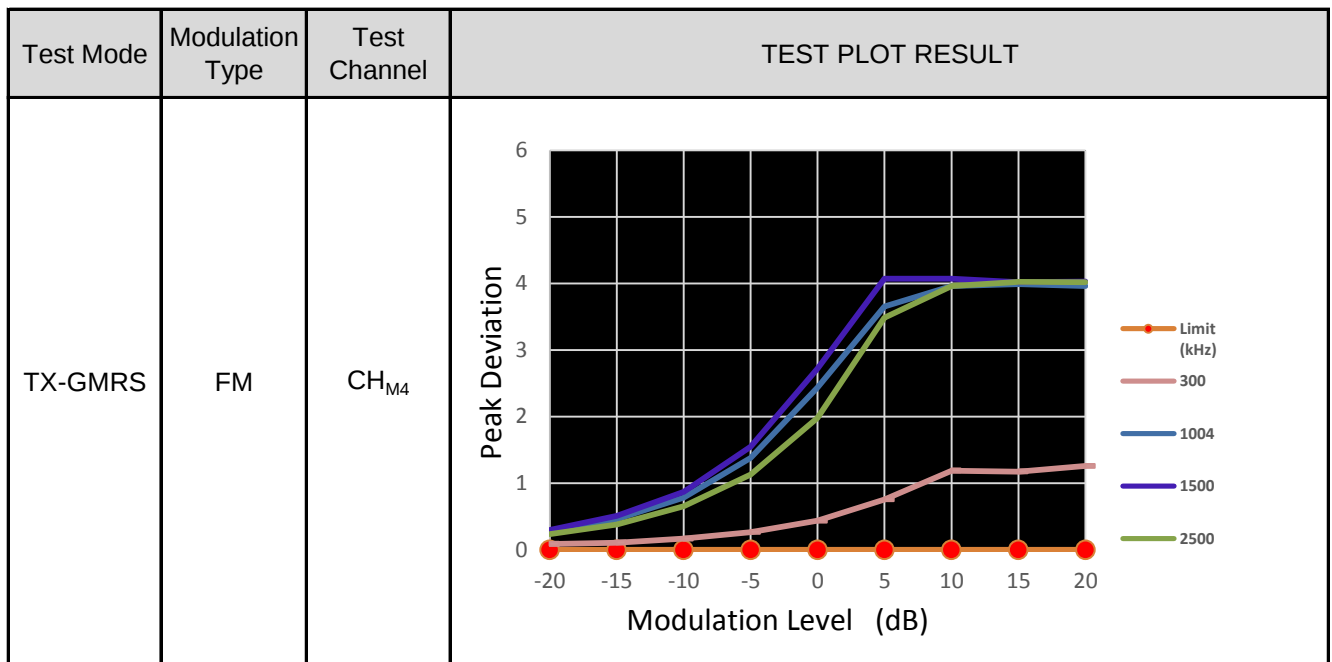
Appendix D:Modulation Limit

Test Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak Frequency Deviation (Hz)				Limit (kHz)	Result
				300	1004	1500	2500		
TX-GMRS	FM	CH _{M1}	-20	0.074	0.276	0.298	0.233	±5	PASS
TX-GMRS	FM	CH _{M1}	-15	0.103	0.45	0.501	0.378	±5	PASS
TX-GMRS	FM	CH _{M1}	-10	0.17	0.776	0.859	0.64	±5	PASS
TX-GMRS	FM	CH _{M1}	-5	0.261	1.363	1.523	1.112	±5	PASS
TX-GMRS	FM	CH _{M1}	0	0.435	2.418	2.716	1.997	±5	PASS
TX-GMRS	FM	CH _{M1}	5	0.746	3.657	4.045	3.442	±5	PASS
TX-GMRS	FM	CH _{M1}	10	1.378	3.957	4.081	3.95	±5	PASS
TX-GMRS	FM	CH _{M1}	15	1.646	3.992	4.019	4.021	±5	PASS
TX-GMRS	FM	CH _{M1}	20	1.466	3.966	4.025	4.021	±5	PASS
TX-GMRS	FM	CH _{M2}	-20	0.065	0.191	0.192	0.152	±2.5	PASS
TX-GMRS	FM	CH _{M2}	-15	0.075	0.297	0.312	0.247	±2.5	PASS
TX-GMRS	FM	CH _{M2}	-10	0.118	0.51	0.533	0.407	±2.5	PASS
TX-GMRS	FM	CH _{M2}	-5	0.174	0.866	0.926	0.694	±2.5	PASS
TX-GMRS	FM	CH _{M2}	0	0.272	1.494	1.592	1.194	±2.5	PASS
TX-GMRS	FM	CH _{M2}	5	0.476	1.96	2.073	1.935	±2.5	PASS
TX-GMRS	FM	CH _{M2}	10	0.671	2.017	2.01	2.042	±2.5	PASS
TX-GMRS	FM	CH _{M2}	15	0.659	2.011	1.998	2.056	±2.5	PASS
TX-GMRS	FM	CH _{M2}	20	0.653	2.006	2.002	2.051	±2.5	PASS
TX-GMRS	FM	CH _{M3}	-20	0.088	0.277	0.298	0.229	±5	PASS
TX-GMRS	FM	CH _{M3}	-15	0.106	0.448	0.497	0.373	±5	PASS
TX-GMRS	FM	CH _{M3}	-10	0.162	0.779	0.865	0.64	±5	PASS
TX-GMRS	FM	CH _{M3}	-5	0.256	1.361	1.507	1.106	±5	PASS
TX-GMRS	FM	CH _{M3}	0	0.433	2.399	2.677	1.961	±5	PASS
TX-GMRS	FM	CH _{M3}	5	0.749	3.657	4.024	3.384	±5	PASS
TX-GMRS	FM	CH _{M3}	10	1.162	3.965	4.082	3.957	±5	PASS
TX-GMRS	FM	CH _{M3}	15	1.421	3.973	4.023	4.014	±5	PASS
TX-GMRS	FM	CH _{M3}	20	1.429	3.976	4.032	4.025	±5	PASS
TX-GMRS	FM	CH _{M4}	-20	0.087	0.274	0.3	0.236	±5	PASS
TX-GMRS	FM	CH _{M4}	-15	0.106	0.463	0.51	0.381	±5	PASS
TX-GMRS	FM	CH _{M4}	-10	0.168	0.783	0.871	0.653	±5	PASS
TX-GMRS	FM	CH _{M4}	-5	0.265	1.381	1.547	1.132	±5	PASS
TX-GMRS	FM	CH _{M4}	0	0.437	2.436	2.719	1.98	±5	PASS
TX-GMRS	FM	CH _{M4}	5	0.756	3.654	4.073	3.485	±5	PASS
TX-GMRS	FM	CH _{M4}	10	1.188	3.964	4.072	3.964	±5	PASS
TX-GMRS	FM	CH _{M4}	15	1.175	3.991	4.021	4.024	±5	PASS
TX-GMRS	FM	CH _{M4}	20	1.259	3.963	4.031	4.017	±5	PASS

Appendix D:Modulation Limit

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-GMRS	FM	CH _{M1}	
TX-GMRS	FM	CH _{M2}	
TX-GMRS	FM	CH _{M3}	

Appendix D:Modulation Limit



Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-GMRS	FM	CH _{M1}	100	-36.71			PASS
TX-GMRS	FM	CH _{M1}	200	-36.75			PASS
TX-GMRS	FM	CH _{M1}	300	-15.15	-17.84	-9.42	PASS
TX-GMRS	FM	CH _{M1}	400	-12.06	-12.86	-6.93	PASS
TX-GMRS	FM	CH _{M1}	500	-8.61	-9.00	-5.00	PASS
TX-GMRS	FM	CH _{M1}	600	-7.37	-7.42	-3.42	PASS
TX-GMRS	FM	CH _{M1}	700	-4.98	-6.09	-2.09	PASS
TX-GMRS	FM	CH _{M1}	800	-2.88	-4.93	-0.93	PASS
TX-GMRS	FM	CH _{M1}	900	-1.20	-3.91	0.09	PASS
TX-GMRS	FM	CH _{M1}	1000	0.03	-3.00	1.00	PASS
TX-GMRS	FM	CH _{M1}	1200	2.09	-1.42	2.58	PASS
TX-GMRS	FM	CH _{M1}	1400	3.12	-0.09	3.91	PASS
TX-GMRS	FM	CH _{M1}	1600	4.12	1.07	5.07	PASS
TX-GMRS	FM	CH _{M1}	1800	4.72	2.09	6.09	PASS
TX-GMRS	FM	CH _{M1}	2000	4.92	3.00	7.00	PASS
TX-GMRS	FM	CH _{M1}	2100	5.16	3.42	7.42	PASS
TX-GMRS	FM	CH _{M1}	2200	5.48	3.83	7.83	PASS
TX-GMRS	FM	CH _{M1}	2300	5.62	4.21	8.21	PASS
TX-GMRS	FM	CH _{M1}	2400	5.39	4.58	8.58	PASS
TX-GMRS	FM	CH _{M1}	2500	5.19	4.93	8.93	PASS
TX-GMRS	FM	CH _{M1}	2600	4.99	4.59	9.27	PASS
TX-GMRS	FM	CH _{M1}	2700	4.78	4.27	9.60	PASS
TX-GMRS	FM	CH _{M1}	2800	4.50	3.95	9.91	PASS
TX-GMRS	FM	CH _{M1}	2900	4.15	3.65	10.22	PASS
TX-GMRS	FM	CH _{M1}	3000	3.67	3.35	10.51	PASS
TX-GMRS	FM	CH _{M1}	3500	-8.79			PASS
TX-GMRS	FM	CH _{M1}	4000	-22.76			PASS
TX-GMRS	FM	CH _{M1}	4500	-36.89			PASS
TX-GMRS	FM	CH _{M1}	5000	-36.82			PASS
TX-GMRS	FM	CH _{M2}	100	-33.13			PASS
TX-GMRS	FM	CH _{M2}	200	-33.13			PASS
TX-GMRS	FM	CH _{M2}	300	-15.59	-17.84	-9.42	PASS
TX-GMRS	FM	CH _{M2}	400	-12.30	-12.86	-6.93	PASS
TX-GMRS	FM	CH _{M2}	500	-8.53	-9.00	-5.00	PASS
TX-GMRS	FM	CH _{M2}	600	-7.28	-7.42	-3.42	PASS
TX-GMRS	FM	CH _{M2}	700	-5.05	-6.09	-2.09	PASS
TX-GMRS	FM	CH _{M2}	800	-2.88	-4.93	-0.93	PASS
TX-GMRS	FM	CH _{M2}	900	-1.22	-3.91	0.09	PASS
TX-GMRS	FM	CH _{M2}	1000	-0.06	-3.00	1.00	PASS
TX-GMRS	FM	CH _{M2}	1200	2.34	-1.42	2.58	PASS
TX-GMRS	FM	CH _{M2}	1400	3.40	-0.09	3.91	PASS
TX-GMRS	FM	CH _{M2}	1600	4.42	1.07	5.07	PASS

Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-GMRS	FM	CH _{M2}	1800	5.05	2.09	6.09	PASS
TX-GMRS	FM	CH _{M2}	2000	5.26	3.00	7.00	PASS
TX-GMRS	FM	CH _{M2}	2100	5.45	3.42	7.42	PASS
TX-GMRS	FM	CH _{M2}	2200	5.71	3.83	7.83	PASS
TX-GMRS	FM	CH _{M2}	2300	5.88	4.21	8.21	PASS
TX-GMRS	FM	CH _{M2}	2400	5.71	4.58	8.58	PASS
TX-GMRS	FM	CH _{M2}	2500	5.47	4.93	8.93	PASS
TX-GMRS	FM	CH _{M2}	2600	5.26	4.59	9.27	PASS
TX-GMRS	FM	CH _{M2}	2700	5.10	4.27	9.60	PASS
TX-GMRS	FM	CH _{M2}	2800	4.76	3.95	9.91	PASS
TX-GMRS	FM	CH _{M2}	2900	4.38	3.65	10.22	PASS
TX-GMRS	FM	CH _{M2}	3000	3.97	3.35	10.51	PASS
TX-GMRS	FM	CH _{M2}	3500	-19.68			PASS
TX-GMRS	FM	CH _{M2}	4000	-32.88			PASS
TX-GMRS	FM	CH _{M2}	4500	-32.90			PASS
TX-GMRS	FM	CH _{M2}	5000	-33.41			PASS
TX-GMRS	FM	CH _{M3}	100	-36.79			PASS
TX-GMRS	FM	CH _{M3}	200	-36.98			PASS
TX-GMRS	FM	CH _{M3}	300	-15.19	-17.84	-9.42	PASS
TX-GMRS	FM	CH _{M3}	400	-12.00	-12.86	-6.93	PASS
TX-GMRS	FM	CH _{M3}	500	-8.52	-9.00	-5.00	PASS
TX-GMRS	FM	CH _{M3}	600	-7.35	-7.42	-3.42	PASS
TX-GMRS	FM	CH _{M3}	700	-4.98	-6.09	-2.09	PASS
TX-GMRS	FM	CH _{M3}	800	-2.89	-4.93	-0.93	PASS
TX-GMRS	FM	CH _{M3}	900	-1.21	-3.91	0.09	PASS
TX-GMRS	FM	CH _{M3}	1000	0.03	-3.00	1.00	PASS
TX-GMRS	FM	CH _{M3}	1200	2.42	-1.42	2.58	PASS
TX-GMRS	FM	CH _{M3}	1400	3.45	-0.09	3.91	PASS
TX-GMRS	FM	CH _{M3}	1600	4.46	1.07	5.07	PASS
TX-GMRS	FM	CH _{M3}	1800	5.00	2.09	6.09	PASS
TX-GMRS	FM	CH _{M3}	2000	5.22	3.00	7.00	PASS
TX-GMRS	FM	CH _{M3}	2100	5.44	3.42	7.42	PASS
TX-GMRS	FM	CH _{M3}	2200	5.82	3.83	7.83	PASS
TX-GMRS	FM	CH _{M3}	2300	5.87	4.21	8.21	PASS
TX-GMRS	FM	CH _{M3}	2400	5.68	4.58	8.58	PASS
TX-GMRS	FM	CH _{M3}	2500	5.44	4.93	8.93	PASS
TX-GMRS	FM	CH _{M3}	2600	5.32	4.59	9.27	PASS
TX-GMRS	FM	CH _{M3}	2700	5.03	4.27	9.60	PASS
TX-GMRS	FM	CH _{M3}	2800	4.73	3.95	9.91	PASS
TX-GMRS	FM	CH _{M3}	2900	4.40	3.65	10.22	PASS
TX-GMRS	FM	CH _{M3}	3000	3.99	3.35	10.51	PASS
TX-GMRS	FM	CH _{M3}	3500	-8.79			PASS

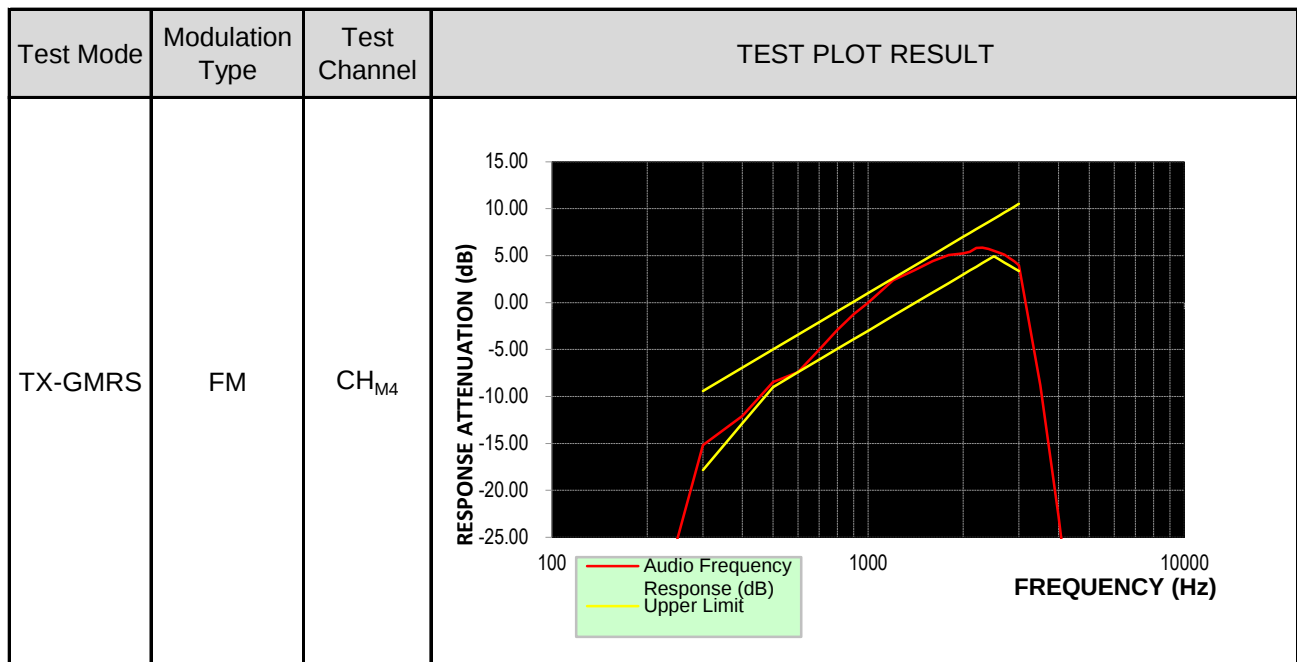
Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-GMRS	FM	CH _{M3}	4000	-22.76			PASS
TX-GMRS	FM	CH _{M3}	4500	-36.87			PASS
TX-GMRS	FM	CH _{M3}	5000	-36.62			PASS
TX-GMRS	FM	CH _{M4}	100	-36.76			PASS
TX-GMRS	FM	CH _{M4}	200	-36.92			PASS
TX-GMRS	FM	CH _{M4}	300	-15.19	-17.84	-9.42	PASS
TX-GMRS	FM	CH _{M4}	400	-12.07	-12.86	-6.93	PASS
TX-GMRS	FM	CH _{M4}	500	-8.48	-9.00	-5.00	PASS
TX-GMRS	FM	CH _{M4}	600	-7.40	-7.42	-3.42	PASS
TX-GMRS	FM	CH _{M4}	700	-5.02	-6.09	-2.09	PASS
TX-GMRS	FM	CH _{M4}	800	-2.92	-4.93	-0.93	PASS
TX-GMRS	FM	CH _{M4}	900	-1.23	-3.91	0.09	PASS
TX-GMRS	FM	CH _{M4}	1000	0.00	-3.00	1.00	PASS
TX-GMRS	FM	CH _{M4}	1200	2.39	-1.42	2.58	PASS
TX-GMRS	FM	CH _{M4}	1400	3.42	-0.09	3.91	PASS
TX-GMRS	FM	CH _{M4}	1600	4.43	1.07	5.07	PASS
TX-GMRS	FM	CH _{M4}	1800	5.06	2.09	6.09	PASS
TX-GMRS	FM	CH _{M4}	2000	5.24	3.00	7.00	PASS
TX-GMRS	FM	CH _{M4}	2100	5.41	3.42	7.42	PASS
TX-GMRS	FM	CH _{M4}	2200	5.81	3.83	7.83	PASS
TX-GMRS	FM	CH _{M4}	2300	5.86	4.21	8.21	PASS
TX-GMRS	FM	CH _{M4}	2400	5.70	4.58	8.58	PASS
TX-GMRS	FM	CH _{M4}	2500	5.53	4.93	8.93	PASS
TX-GMRS	FM	CH _{M4}	2600	5.30	4.59	9.27	PASS
TX-GMRS	FM	CH _{M4}	2700	5.12	4.27	9.60	PASS
TX-GMRS	FM	CH _{M4}	2800	4.74	3.95	9.91	PASS
TX-GMRS	FM	CH _{M4}	2900	4.38	3.65	10.22	PASS
TX-GMRS	FM	CH _{M4}	3000	3.98	3.35	10.51	PASS
TX-GMRS	FM	CH _{M4}	3500	-8.82			PASS
TX-GMRS	FM	CH _{M4}	4000	-22.77			PASS
TX-GMRS	FM	CH _{M4}	4500	-36.62			PASS
TX-GMRS	FM	CH _{M4}	5000	-36.59			PASS

Appendix E:Audio Frequency Response

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-GMRS	FM	CH _{M1}	
TX-GMRS	FM	CH _{M2}	
TX-GMRS	FM	CH _{M3}	

Appendix E:Audio Frequency Response



Appendix F:Audio Low Pass Filter Response

Test Mode	Modulation Type	Test Channel	Audio Frequency(Hz)	Audio Frequency Response(dB)	Limit	Result
TX-GMRS	FM	CH _{M1}	1000	-14.18	0	PASS
TX-GMRS	FM	CH _{M1}	3000	-20.23	0	PASS
TX-GMRS	FM	CH _{M1}	4000	-39.37	-7.5	PASS
TX-GMRS	FM	CH _{M1}	5000	-52.00	-13.3	PASS
TX-GMRS	FM	CH _{M1}	6000	-52.26	-18.1	PASS
TX-GMRS	FM	CH _{M1}	8000	-52.16	-25.6	PASS
TX-GMRS	FM	CH _{M1}	10000	-52.41	-31.4	PASS
TX-GMRS	FM	CH _{M1}	15000	-52.03	-41.9	PASS
TX-GMRS	FM	CH _{M1}	20000	-51.85	-50	PASS
TX-GMRS	FM	CH _{M1}	30000	-52.10	-50	PASS
TX-GMRS	FM	CH _{M1}	40000	-52.51	-50	PASS
TX-GMRS	FM	CH _{M1}	50000	-52.24	-50	PASS
TX-GMRS	FM	CH _{M1}	60000	-52.44	-50	PASS
TX-GMRS	FM	CH _{M1}	70000	-53.01	-50	PASS
TX-GMRS	FM	CH _{M1}	80000	-53.03	-50	PASS
TX-GMRS	FM	CH _{M1}	90000	-52.97	-50	PASS
TX-GMRS	FM	CH _{M1}	100000	-53.05	-50	PASS
TX-GMRS	FM	CH _{M2}	1000	-14.22	0	PASS
TX-GMRS	FM	CH _{M2}	3000	-20.27	0	PASS
TX-GMRS	FM	CH _{M2}	4000	-39.41	-7.5	PASS
TX-GMRS	FM	CH _{M2}	5000	-52.04	-13.3	PASS
TX-GMRS	FM	CH _{M2}	6000	-52.30	-18.1	PASS
TX-GMRS	FM	CH _{M2}	8000	-52.20	-25.6	PASS
TX-GMRS	FM	CH _{M2}	10000	-52.45	-31.4	PASS
TX-GMRS	FM	CH _{M2}	15000	-52.07	-41.9	PASS
TX-GMRS	FM	CH _{M2}	20000	-51.89	-50	PASS
TX-GMRS	FM	CH _{M2}	30000	-52.16	-50	PASS
TX-GMRS	FM	CH _{M2}	40000	-52.57	-50	PASS
TX-GMRS	FM	CH _{M2}	50000	-52.30	-50	PASS
TX-GMRS	FM	CH _{M2}	60000	-52.50	-50	PASS
TX-GMRS	FM	CH _{M2}	70000	-53.07	-50	PASS
TX-GMRS	FM	CH _{M2}	80000	-53.09	-50	PASS
TX-GMRS	FM	CH _{M2}	90000	-53.03	-50	PASS
TX-GMRS	FM	CH _{M2}	100000	-53.11	-50	PASS
TX-GMRS	FM	CH _{M3}	1000	-13.98	0	PASS
TX-GMRS	FM	CH _{M3}	3000	-20.03	0	PASS
TX-GMRS	FM	CH _{M3}	4000	-39.17	-7.5	PASS
TX-GMRS	FM	CH _{M3}	5000	-51.80	-13.3	PASS
TX-GMRS	FM	CH _{M3}	6000	-52.06	-18.1	PASS
TX-GMRS	FM	CH _{M3}	8000	-51.96	-25.6	PASS
TX-GMRS	FM	CH _{M3}	10000	-52.21	-31.4	PASS
TX-GMRS	FM	CH _{M3}	15000	-51.83	-41.9	PASS
TX-GMRS	FM	CH _{M3}	20000	-51.65	-50	PASS
TX-GMRS	FM	CH _{M3}	30000	-51.90	-50	PASS
TX-GMRS	FM	CH _{M3}	40000	-52.31	-50	PASS

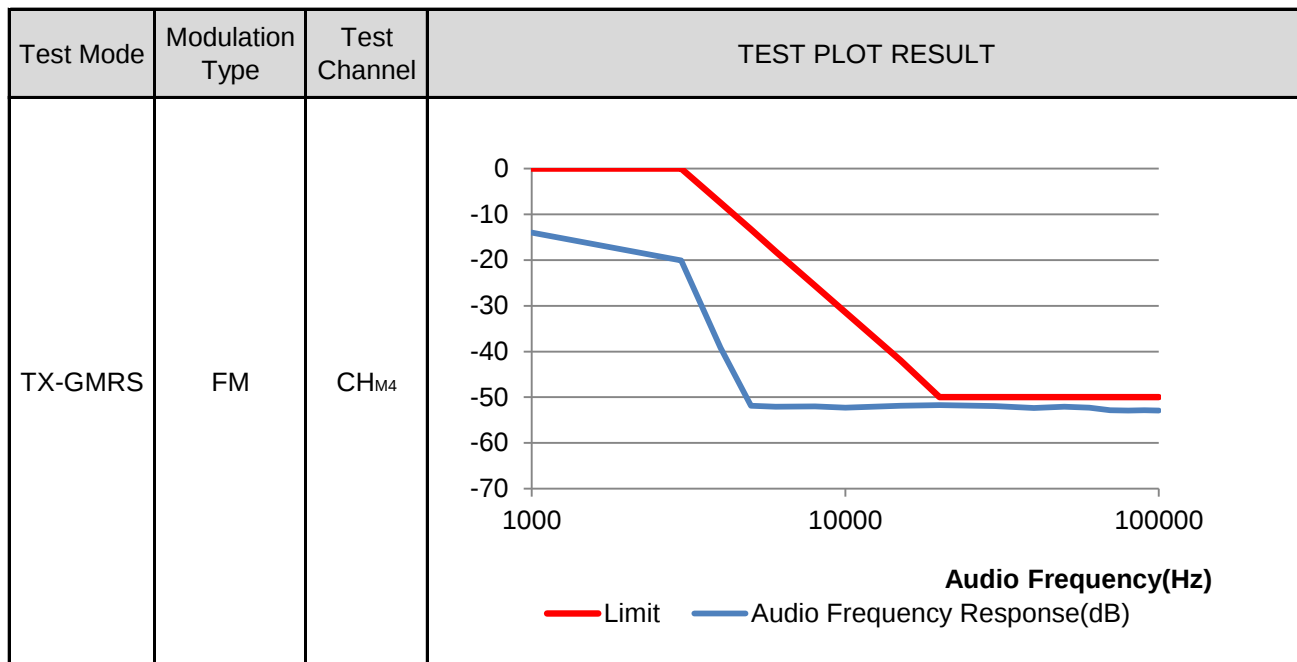
Appendix F:Audio Low Pass Filter Response

Test Mode	Modulation Type	Test Channel	Audio Frequency(Hz)	Audio Frequency Response(dB)	Limit	Result
TX-GMRS	FM	CH _{M3}	50000	-52.04	-50	PASS
TX-GMRS	FM	CH _{M3}	60000	-52.24	-50	PASS
TX-GMRS	FM	CH _{M3}	70000	-52.81	-50	PASS
TX-GMRS	FM	CH _{M3}	80000	-52.83	-50	PASS
TX-GMRS	FM	CH _{M3}	90000	-52.77	-50	PASS
TX-GMRS	FM	CH _{M3}	100000	-52.85	-50	PASS
TX-GMRS	FM	CH _{M4}	1000	-14.02	0	PASS
TX-GMRS	FM	CH _{M4}	3000	-20.07	0	PASS
TX-GMRS	FM	CH _{M4}	4000	-39.21	-7.5	PASS
TX-GMRS	FM	CH _{M4}	5000	-51.84	-13.3	PASS
TX-GMRS	FM	CH _{M4}	6000	-52.10	-18.1	PASS
TX-GMRS	FM	CH _{M4}	8000	-52.00	-25.6	PASS
TX-GMRS	FM	CH _{M4}	10000	-52.25	-31.4	PASS
TX-GMRS	FM	CH _{M4}	15000	-51.87	-41.9	PASS
TX-GMRS	FM	CH _{M4}	20000	-51.69	-50	PASS
TX-GMRS	FM	CH _{M4}	30000	-51.96	-50	PASS
TX-GMRS	FM	CH _{M4}	40000	-52.37	-50	PASS
TX-GMRS	FM	CH _{M4}	50000	-52.10	-50	PASS
TX-GMRS	FM	CH _{M4}	60000	-52.30	-50	PASS
TX-GMRS	FM	CH _{M4}	70000	-52.87	-50	PASS
TX-GMRS	FM	CH _{M4}	80000	-52.89	-50	PASS
TX-GMRS	FM	CH _{M4}	90000	-52.83	-50	PASS
TX-GMRS	FM	CH _{M4}	100000	-52.91	-50	PASS

Appendix F:Audio Low Pass Filter Response

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-GMRS	FM	CH _{M1}	Audio Frequency Response (dB) vs Audio Frequency (Hz) for CH_{M1}. The plot shows the response of the audio low pass filter. The red line is the Limit, and the blue line is the Audio Frequency Response. The response is within the limit across the entire frequency range.
TX-GMRS	FM	CH _{M2}	Audio Frequency Response (dB) vs Audio Frequency (Hz) for CH_{M2}. The plot shows the response of the audio low pass filter. The red line is the Limit, and the blue line is the Audio Frequency Response. The response is within the limit across the entire frequency range.
TX-GMRS	FM	CH _{M3}	Audio Frequency Response (dB) vs Audio Frequency (Hz) for CH_{M3}. The plot shows the response of the audio low pass filter. The red line is the Limit, and the blue line is the Audio Frequency Response. The response is within the limit across the entire frequency range.

Appendix F:Audio Low Pass Filter Response



Appendix G:Frequency Stability Test & Temperature

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)				Limit (ppm)	Result
		Voltage	Temperature	CH _{M1}	CH _{M2}	CH _{M3}	CH _{M4}		
TX-GMRS	FM	V _N	-30	-	-0.111	-	-	±2.5	PASS
TX-GMRS	FM	V _N	-20	-	-0.119	-	-	±2.5	PASS
TX-GMRS	FM	V _N	-10	-	-0.113	-	-	±2.5	PASS
TX-GMRS	FM	V _N	0	-	-0.119	-	-	±2.5	PASS
TX-GMRS	FM	V _N	10	-	-0.116	-	-	±2.5	PASS
TX-GMRS	FM	V _N	20	-	-0.108	-	-	±2.5	PASS
TX-GMRS	FM	V _N	30	-	-0.111	-	-	±2.5	PASS
TX-GMRS	FM	V _N	40	-	-0.109	-	-	±2.5	PASS
TX-GMRS	FM	V _N	50	-	-0.114	-	-	±2.5	PASS
TX-GMRS	FM	V _N	-30	-0.093	-	-0.048	-0.036	±5	PASS
TX-GMRS	FM	V _N	-20	-0.096	-	-0.047	-0.034	±5	PASS
TX-GMRS	FM	V _N	-10	-0.092	-	-0.048	-0.036	±5	PASS
TX-GMRS	FM	V _N	0	-0.092	-	-0.046	-0.034	±5	PASS
TX-GMRS	FM	V _N	10	-0.096	-	-0.049	-0.035	±5	PASS
TX-GMRS	FM	V _N	20	-0.092	-	-0.045	-0.033	±5	PASS
TX-GMRS	FM	V _N	30	-0.093	-	-0.048	-0.034	±5	PASS
TX-GMRS	FM	V _N	40	-0.095	-	-0.047	-0.033	±5	PASS
TX-GMRS	FM	V _N	50	-0.100	-	-0.048	-0.034	±5	PASS

Appendix H:Frequency Stability Test & Voltage

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)				Limit (ppm)	Result
		Voltage	Temperature	CH _{M1}	CH _{M2}	CH _{M3}	CH _{M4}		
TX-GMRS	FM	V _N	T _N	-	-0.108	-	-	±2.5	PASS
TX-GMRS	FM	V _L	T _N	-	-0.109	-	-	±2.5	PASS
TX-GMRS	FM	V _H	T _N	-	-0.112	-	-	±2.5	PASS
TX-GMRS	FM	V _N	T _N	-0.092	-	-0.045	-0.033	±5	PASS
TX-GMRS	FM	V _L	T _N	-0.093	-	-0.045	-0.034	±5	PASS
TX-GMRS	FM	V _H	T _N	-0.097	-	-0.047	-0.034	±5	PASS