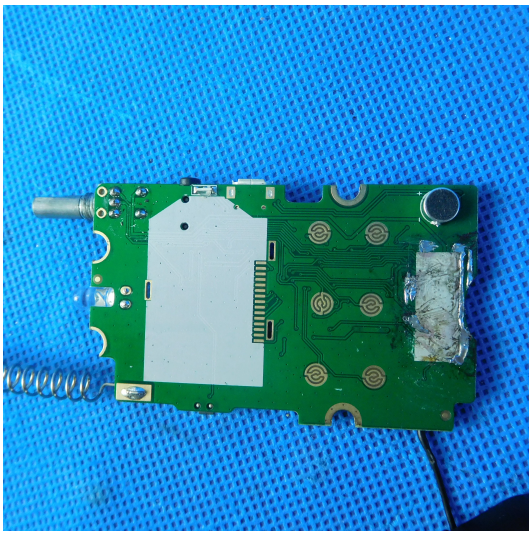


8 APPENDIX REPORT

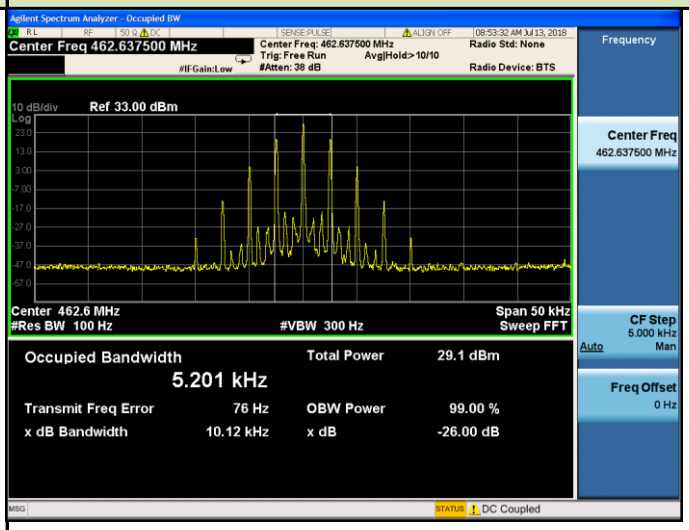
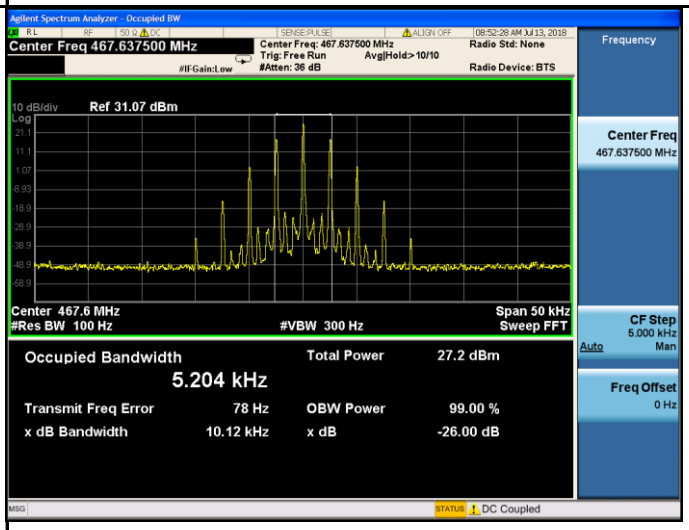
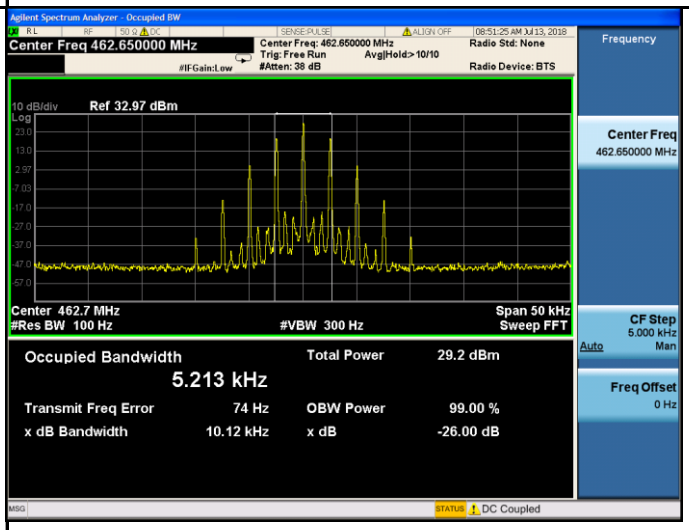
Appendix A: Carrier Output Power(ERP)

Test Mode	Modulation Type	Test Channel	Measured power (dBm)	Measured power (W)	Limit(W)	Result
TX-FRS	FM	CH_{M1}	29.13	0.82	≤1	PASS
TX-FRS	FM	CH_{M2}	26.98	0.50	≤0.5	PASS
TX-FRS	FM	CH_{M3}	29.07	0.81	≤1	PASS

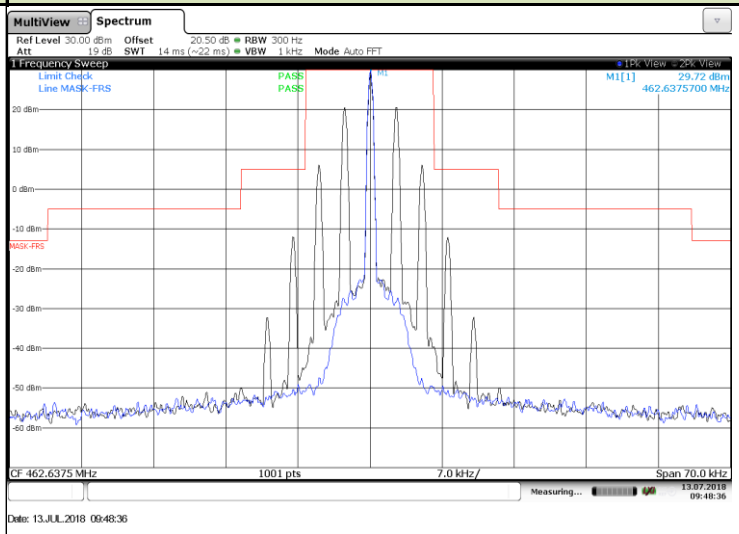
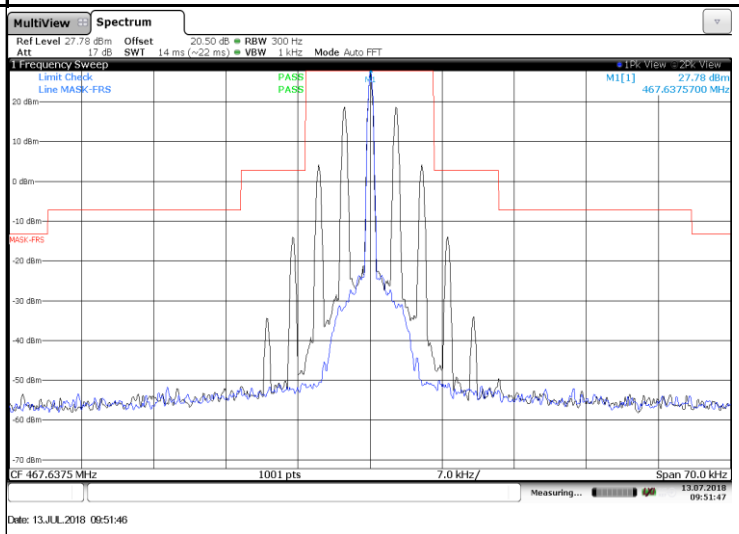
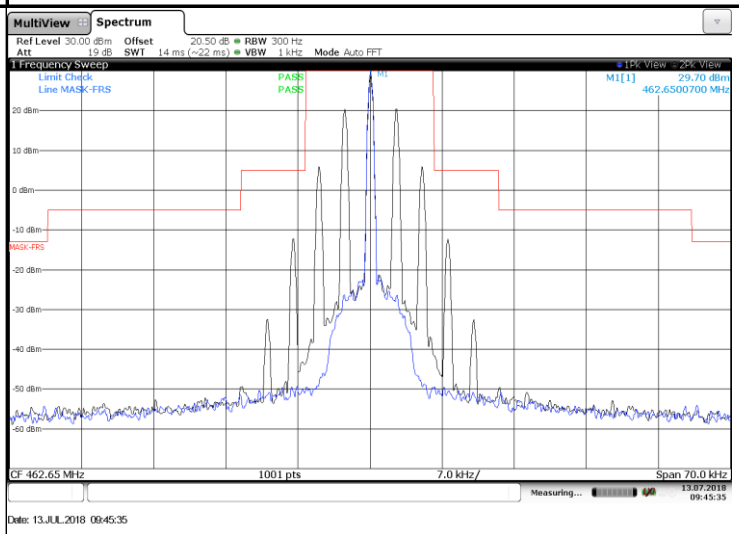
Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth

Test Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-FRS	FM	CH_{M1}	5.201	10.119	≤12.5	PASS
TX-FRS	FM	CH_{M2}	5.204	10.119	≤12.5	PASS
TX-FRS	FM	CH_{M3}	**5.212**	10.119	≤12.5	PASS

Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH_{M1}	
TX-FRS	FM	CH_{M2}	
TX-FRS	FM	CH_{M3}	

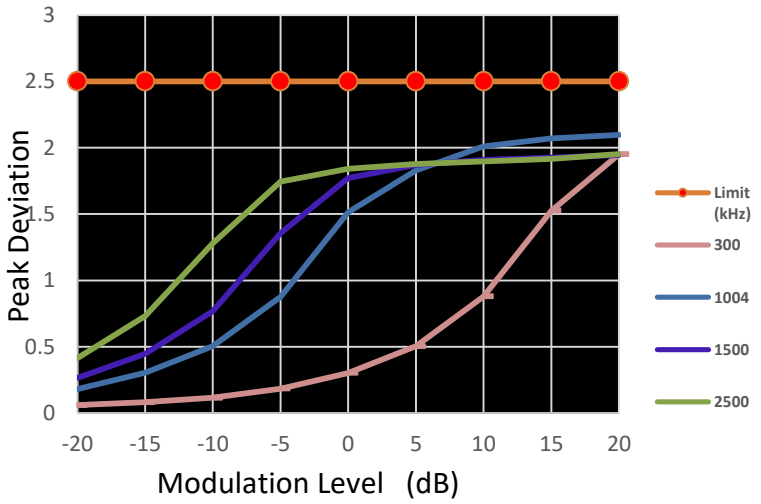
Appendix C:Emission Mask

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH_{M1}	
TX-FRS	FM	CH_{M2}	
TX-FRS	FM	CH_{M3}	

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-FRS	FM	CH_{M2}	-20	0.06	0.181	0.266	0.416	2.5	PASS
TX-FRS	FM	CH_{M2}	-15	0.082	0.304	0.447	0.731	2.5	PASS
TX-FRS	FM	CH_{M2}	-10	0.115	0.505	0.768	1.278	2.5	PASS
TX-FRS	FM	CH_{M2}	-5	0.184	0.877	1.355	1.744	2.5	PASS
TX-FRS	FM	CH_{M2}	0	0.302	1.513	1.771	1.841	2.5	PASS
TX-FRS	FM	CH_{M2}	5	0.504	1.828	1.871	1.877	2.5	PASS
TX-FRS	FM	CH_{M2}	10	0.879	2.009	1.909	1.897	2.5	PASS
TX-FRS	FM	CH_{M2}	15	1.525	2.07	1.926	1.916	2.5	PASS
TX-FRS	FM	CH_{M2}	20	1.95	2.096	1.944	1.952	2.5	PASS

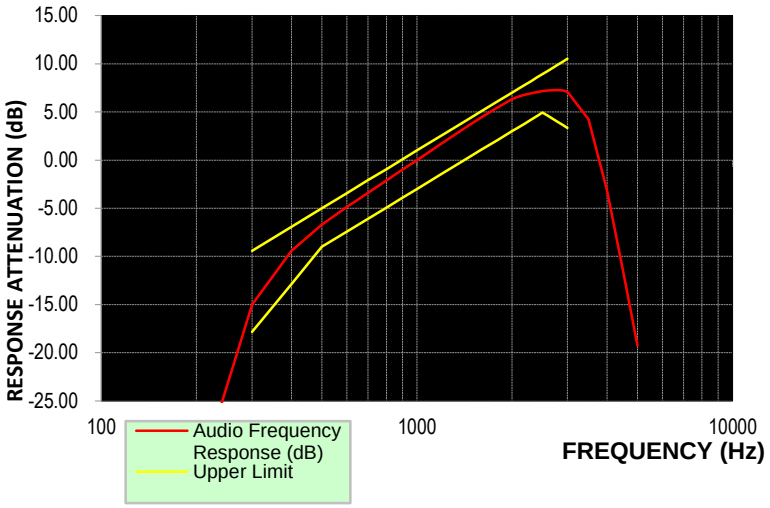
Appendix D:Modulation Limit

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH_{M2}	

Appendix E:Aduio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-FRS	FM	CH_{M2}	100	-33.68			PASS
TX-FRS	FM	CH_{M2}	200	-33.71			PASS
TX-FRS	FM	CH_{M2}	300	-15.01	-17.84	-9.42	PASS
TX-FRS	FM	CH_{M2}	400	-9.41	-12.86	-6.93	PASS
TX-FRS	FM	CH_{M2}	500	-6.70	-9.00	-5.00	PASS
TX-FRS	FM	CH_{M2}	600	-4.88	-7.42	-3.42	PASS
TX-FRS	FM	CH_{M2}	700	-3.40	-6.09	-2.09	PASS
TX-FRS	FM	CH_{M2}	800	-2.11	-4.93	-0.93	PASS
TX-FRS	FM	CH_{M2}	900	-0.99	-3.91	0.09	PASS
TX-FRS	FM	CH_{M2}	1000	-0.01	-3.00	1.00	PASS
TX-FRS	FM	CH_{M2}	1200	1.76	-1.42	2.58	PASS
TX-FRS	FM	CH_{M2}	1400	3.21	-0.09	3.91	PASS
TX-FRS	FM	CH_{M2}	1600	4.44	1.07	5.07	PASS
TX-FRS	FM	CH_{M2}	1800	5.47	2.09	6.09	PASS
TX-FRS	FM	CH_{M2}	2000	6.34	3.00	7.00	PASS
TX-FRS	FM	CH_{M2}	2100	6.60	3.42	7.42	PASS
TX-FRS	FM	CH_{M2}	2200	6.80	3.83	7.83	PASS
TX-FRS	FM	CH_{M2}	2300	6.95	4.21	8.21	PASS
TX-FRS	FM	CH_{M2}	2400	7.06	4.58	8.58	PASS
TX-FRS	FM	CH_{M2}	2500	7.16	4.93	8.93	PASS
TX-FRS	FM	CH_{M2}	2600	7.22	4.59	9.27	PASS
TX-FRS	FM	CH_{M2}	2700	7.26	4.27	9.60	PASS
TX-FRS	FM	CH_{M2}	2800	7.26	3.95	9.91	PASS
TX-FRS	FM	CH_{M2}	2900	7.22	3.65	10.22	PASS
TX-FRS	FM	CH_{M2}	3000	7.10	3.35	10.51	PASS
TX-FRS	FM	CH_{M2}	3500	4.23			PASS
TX-FRS	FM	CH_{M2}	4000	-3.16			PASS
TX-FRS	FM	CH_{M2}	4500	-11.50			PASS
TX-FRS	FM	CH_{M2}	5000	-19.25			PASS

Appendix E:Aduio Frequency Response

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH_{M2}	

Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

Appendix F:Frequency Stability Test & Temperature

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH_{M1}	CH_{M2}	CH_{M3}		
TX-FRS	FM	V_N	-30	0.221	0.241	0.226	±2.5	PASS
TX-FRS	FM	V_N	-20	0.221	0.225	0.228	±2.5	PASS
TX-FRS	FM	V_N	-10	0.224	**0.244**	0.215	±2.5	PASS
TX-FRS	FM	V_N	0	0.221	0.237	0.211	±2.5	PASS
TX-FRS	FM	V_N	10	0.222	0.232	0.222	±2.5	PASS
TX-FRS	FM	V_N	20	0.212	0.223	0.207	±2.5	PASS
TX-FRS	FM	V_N	30	0.214	0.243	0.221	±2.5	PASS
TX-FRS	FM	V_N	40	0.223	0.237	0.214	±2.5	PASS
TX-FRS	FM	V_N	55	0.221	0.242	0.210	±2.5	PASS

Appendix G:Frequency Stability Test & Voltage

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH_{M1}	CH_{M2}	CH_{M3}		
TX-FRS	FM	V_N	T_N	0.212	0.223	0.207	±2.5	PASS
TX-FRS	FM	V_L	T_N	0.215	0.227	0.207	±2.5	PASS
TX-FRS	FM	V_H	T_N	0.222	**0.236**	0.217	±2.5	PASS

----End of Report----