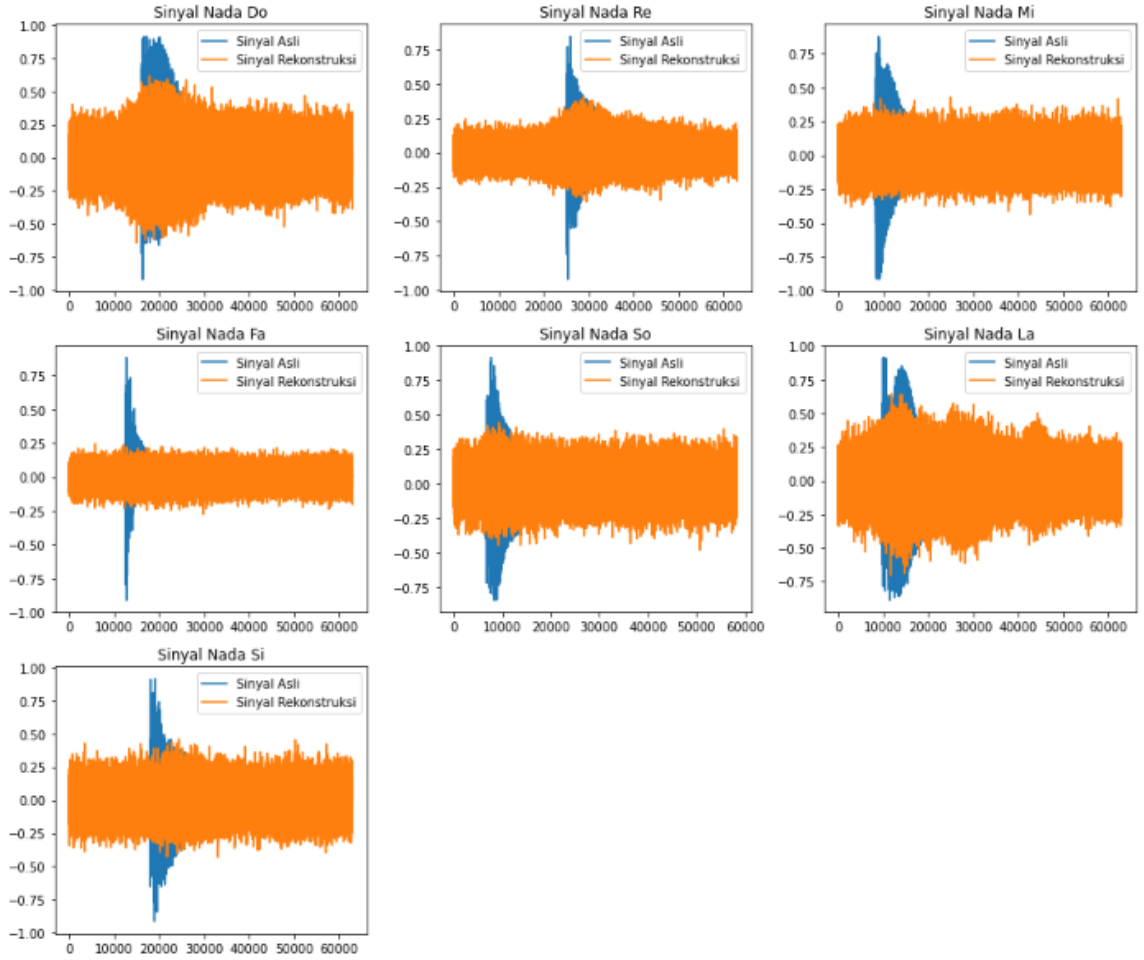
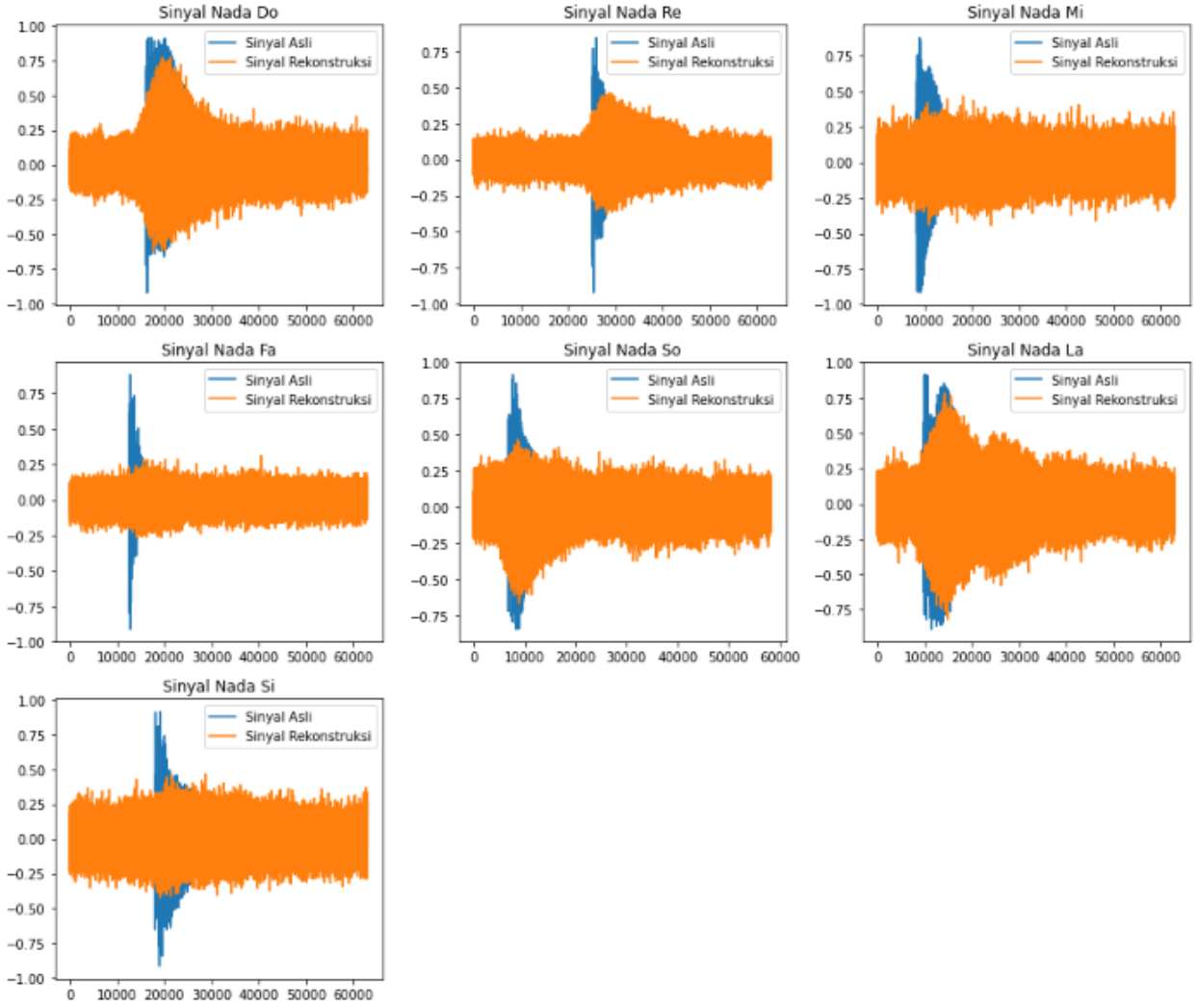
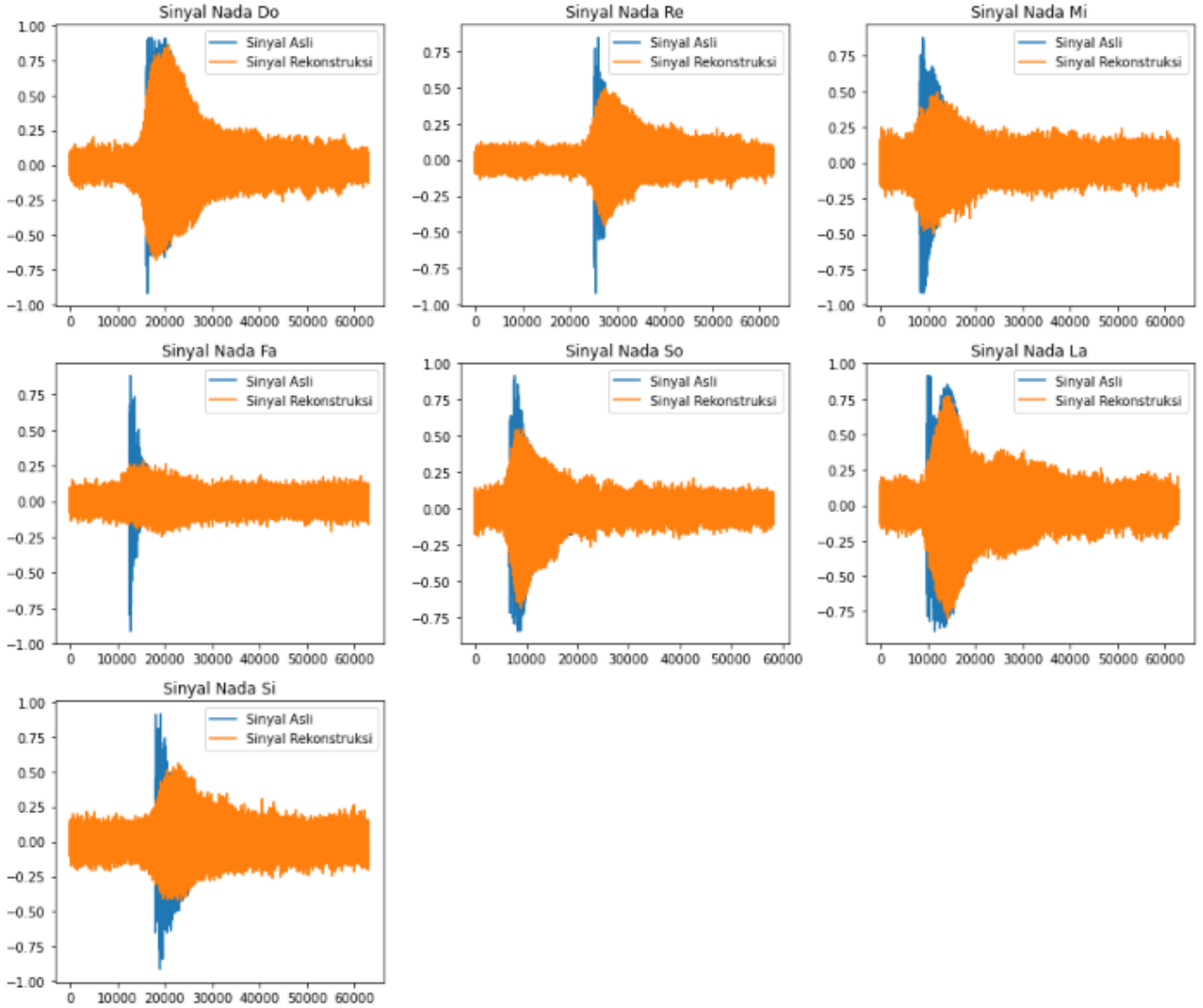
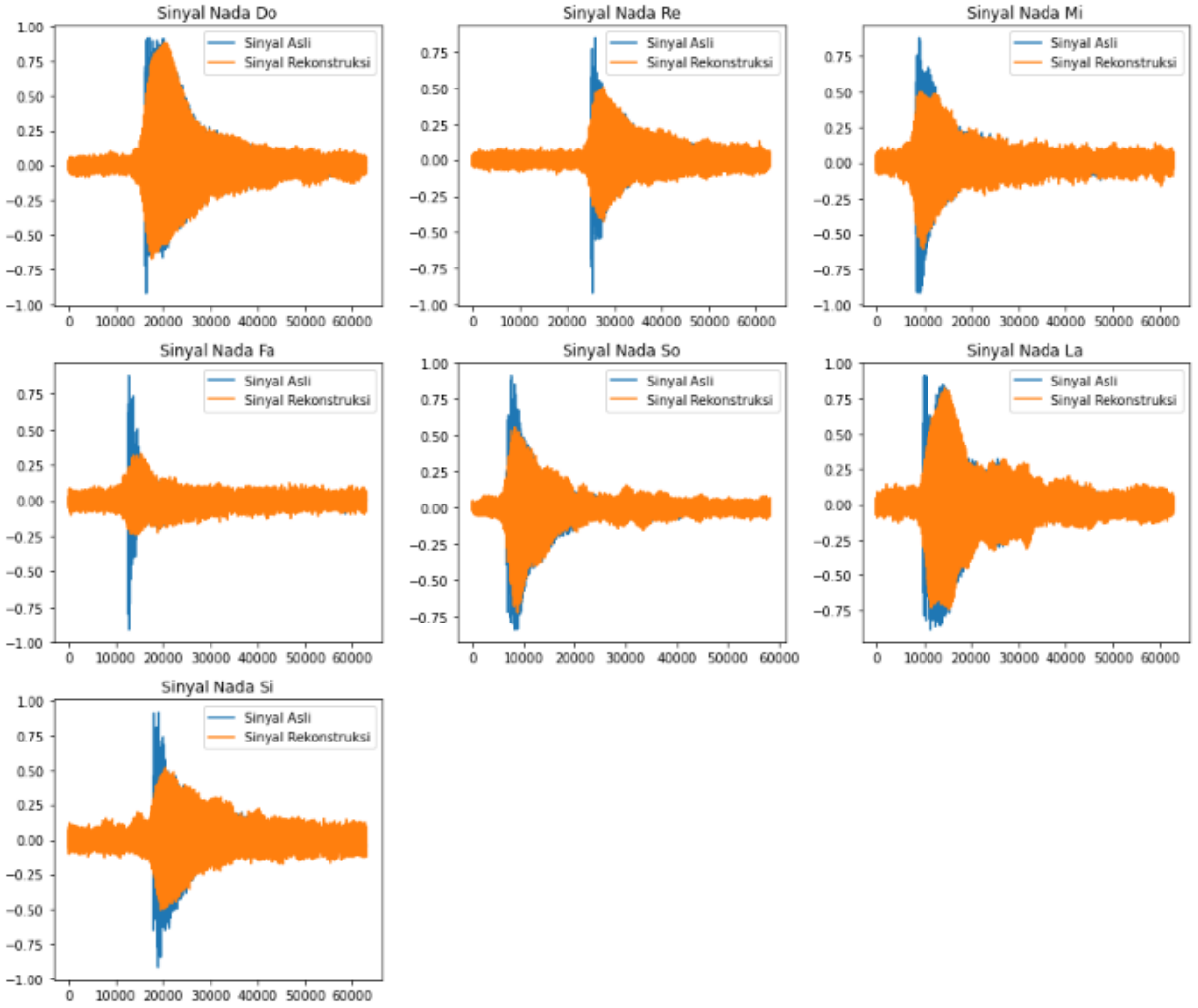
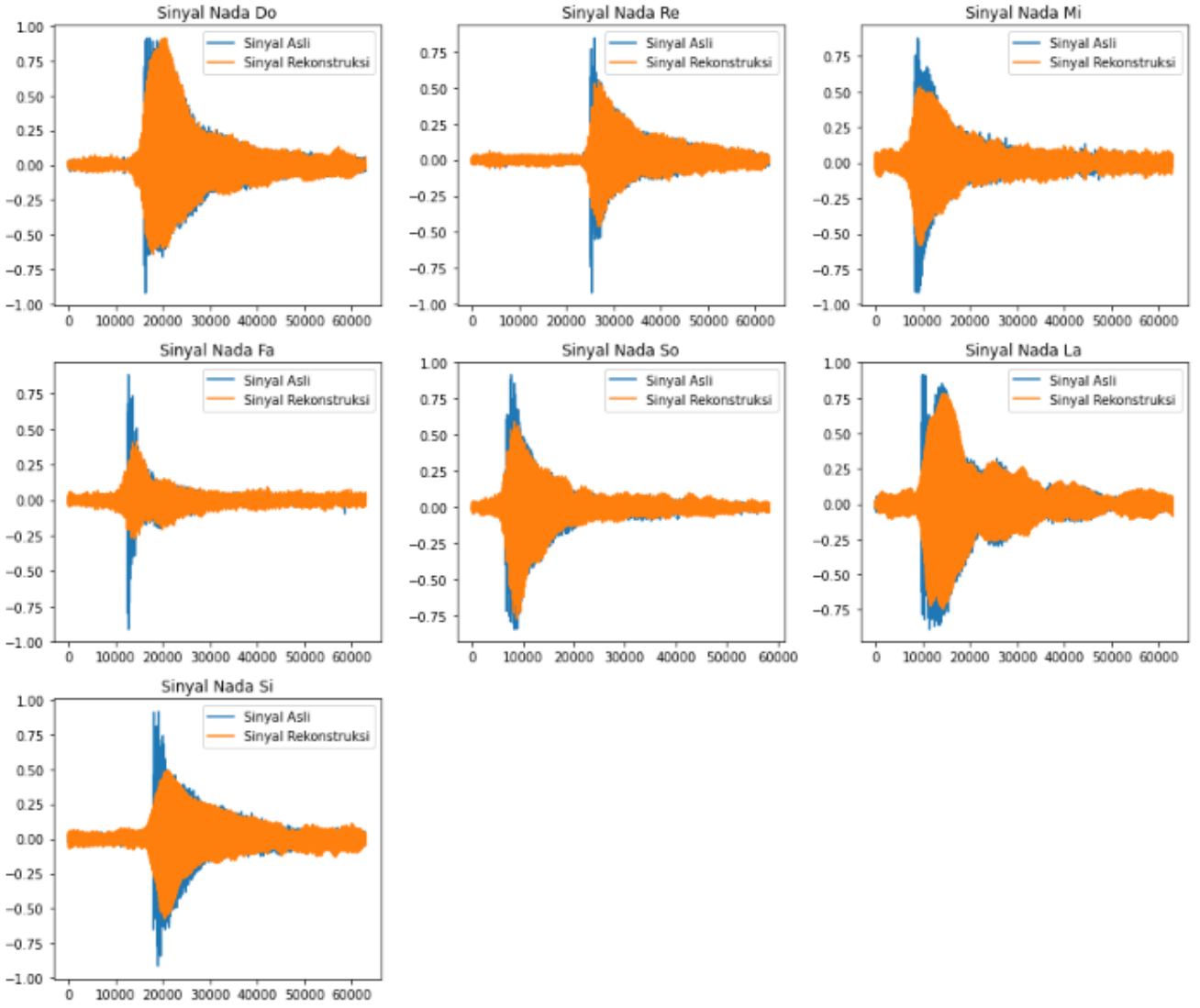
Comparison of the audio signal with several different compression ratios

Matriks A ($M \times 63000$)	
M	394
Compression Ratio	0,625%
Signals Comparison	

M	788
Rasio Kompresi	1,25%
Signals Comparison	

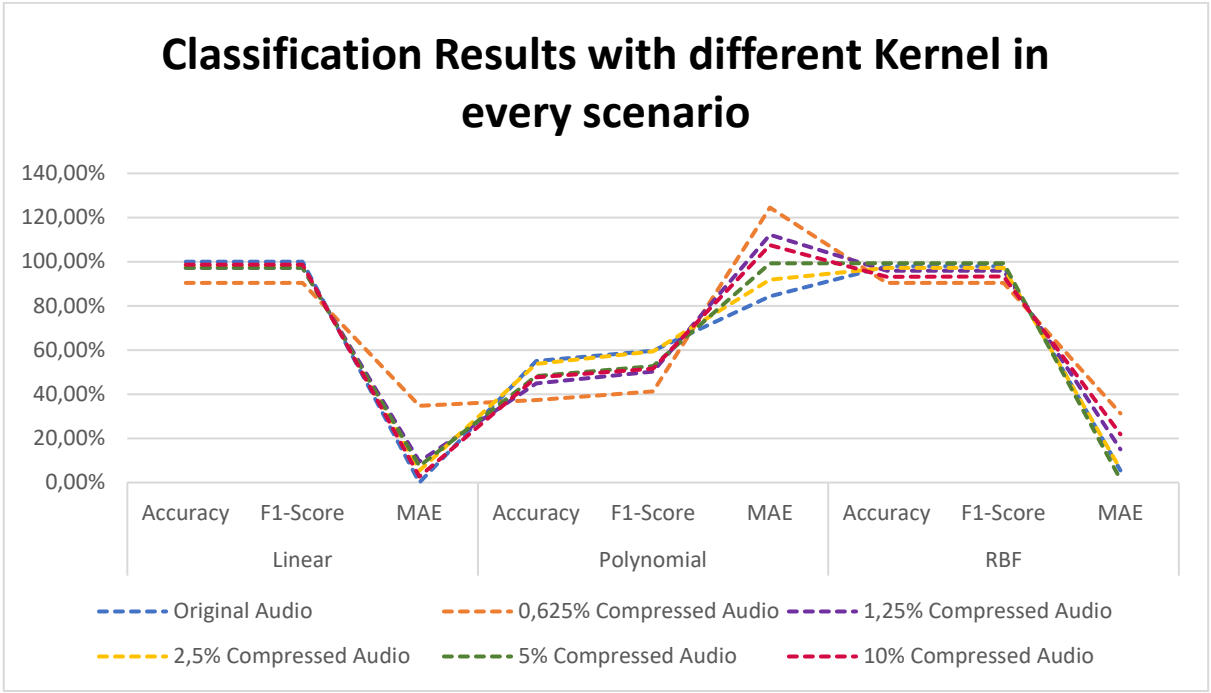
M	1575
Compression Ratio	2,5%
Signals Comparison	

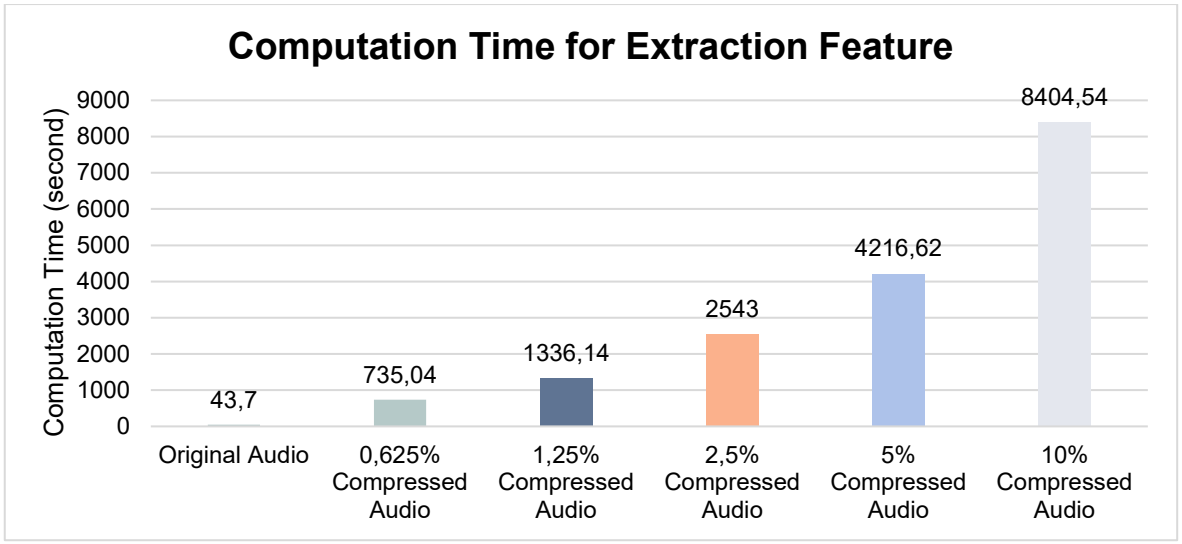
M	3150
Compression Ratio	5%
Signals Comparison	

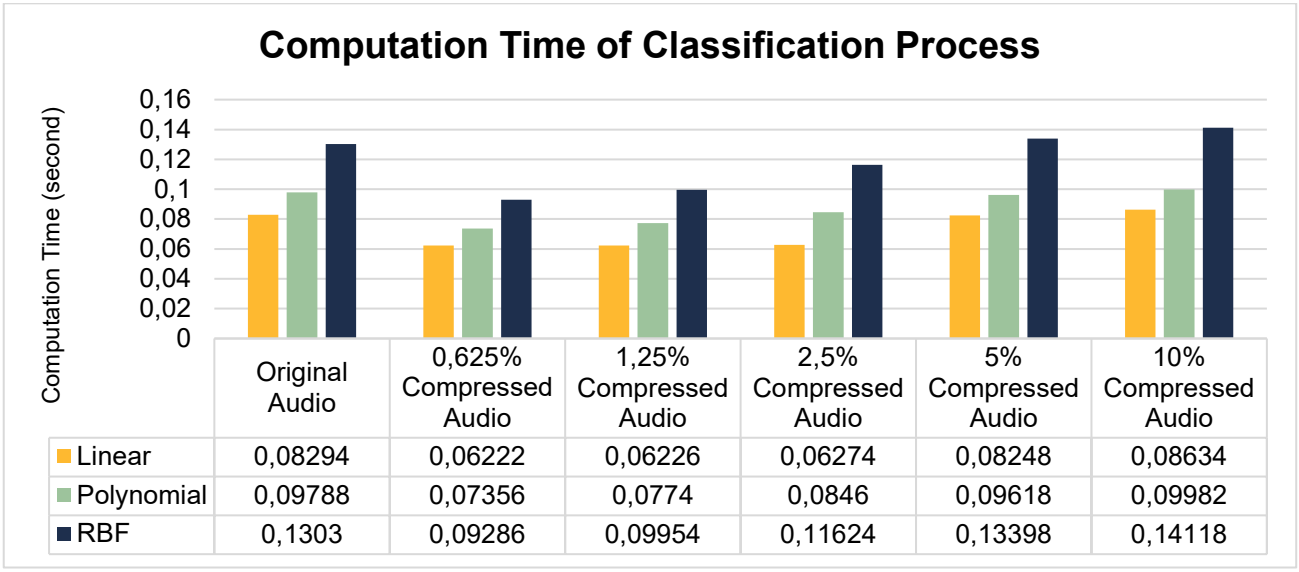
M	6300
Compression Ratio	10%
Signals Comparison	

Classification results with different types of audios

	Linear			Polynomial			RBF		
	Accuracy	F1-Score	MAE	Accuracy	F1-Score	MAE	Accuracy	F1-Score	MAE
Original Audio	100,00%	100,00%	0	55,10%	59,73%	0,843	97,96%	97,96%	0,054
0,625% Compressed Audio	90,48%	90,43%	0,347	37,41%	41,27%	1,245	90,48%	90,41%	0,313
1,25% Compressed Audio	97,28%	97,29%	0,095	44,90%	50,30%	1,122	95,92%	95,87%	0,15
2,5% Compressed Audio	97,96%	97,97%	0,054	53,74%	59,34%	0,918	97,28%	97,27%	0,061
5% Compressed Audio	97,28%	97,25%	0,075	48,30%	52,68%	0,993	99,32%	99,32%	0,014
10% Compressed Audio	98,64%	98,63%	0,027	47,62%	51,50%	1,075	93,20%	93,31%	0,218

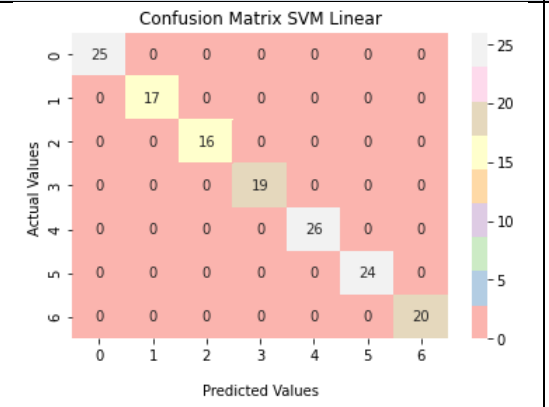
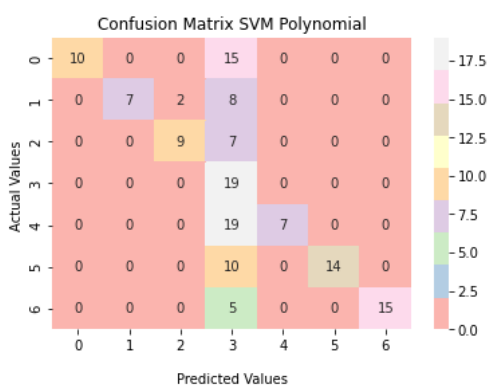
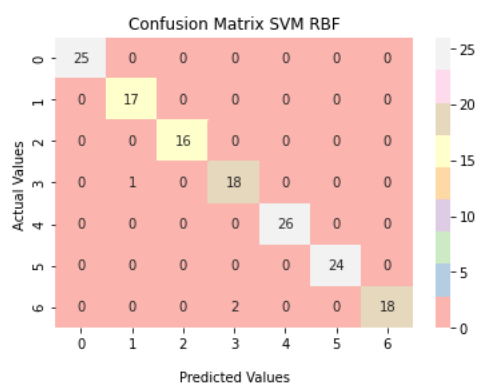
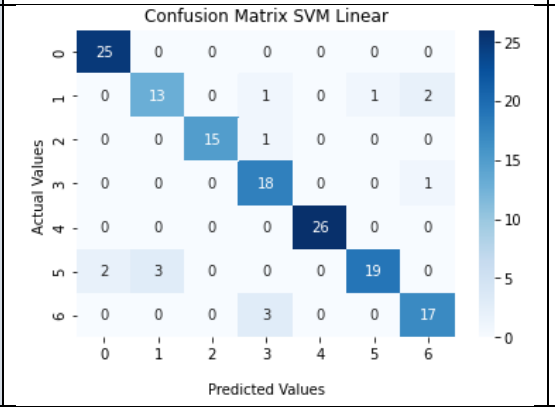
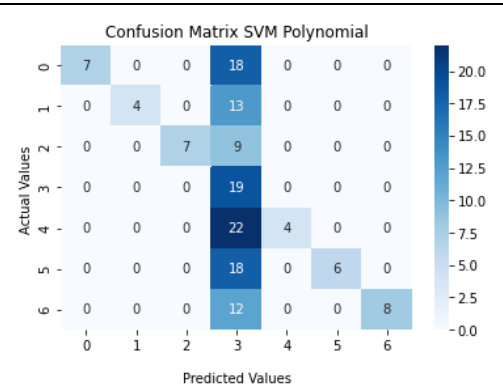
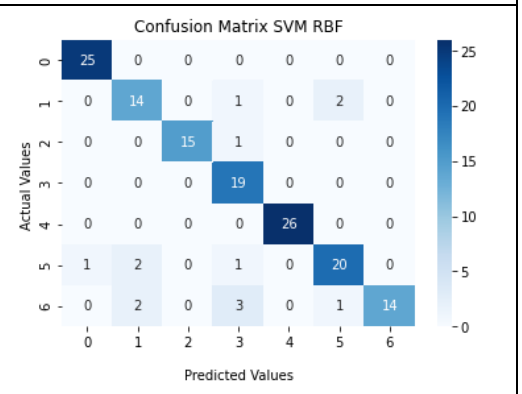


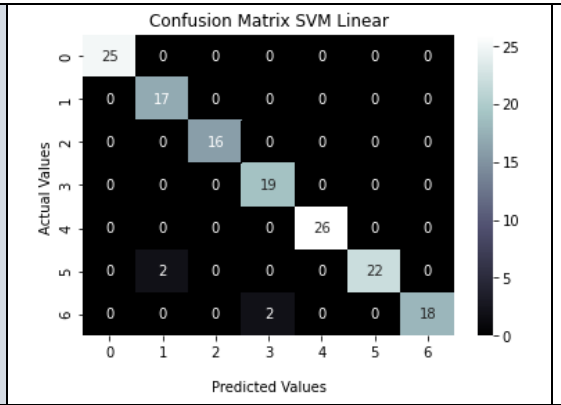
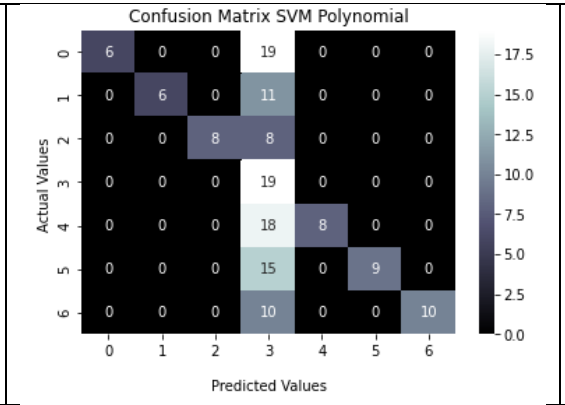
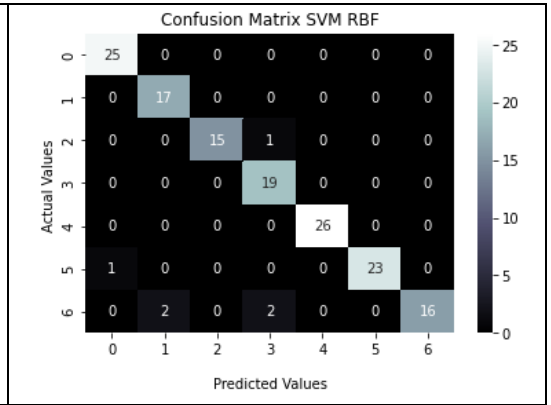
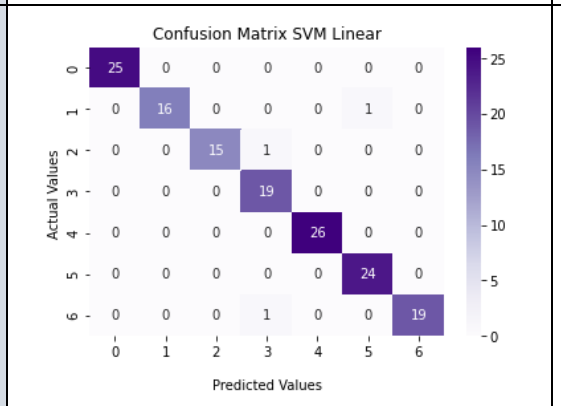
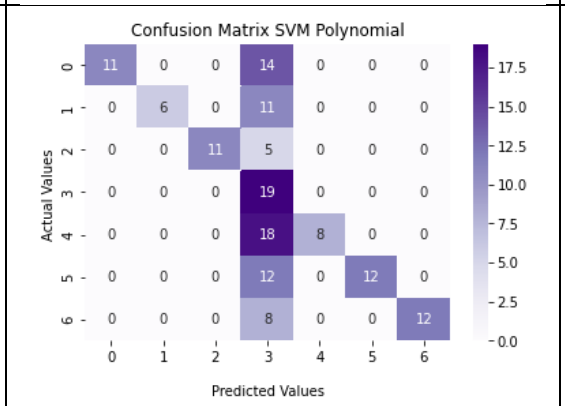
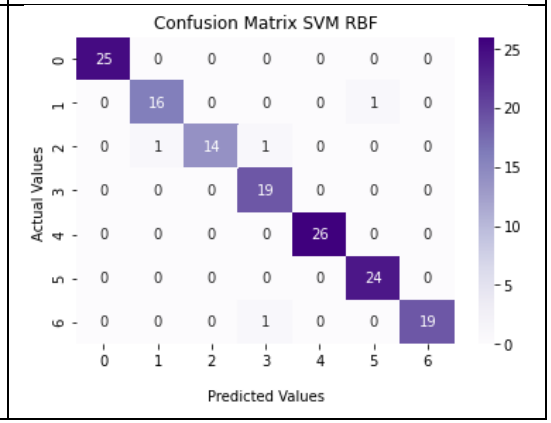


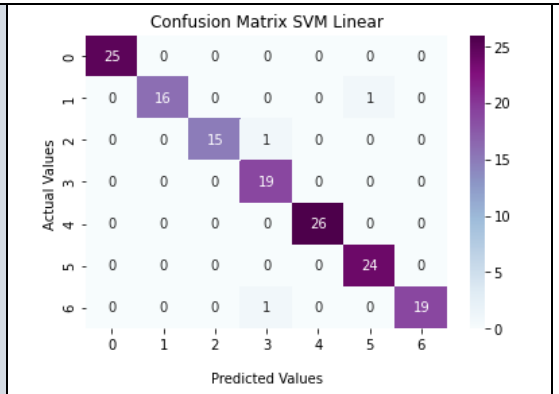
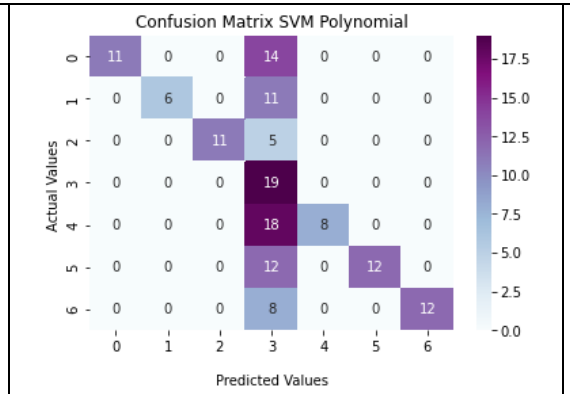
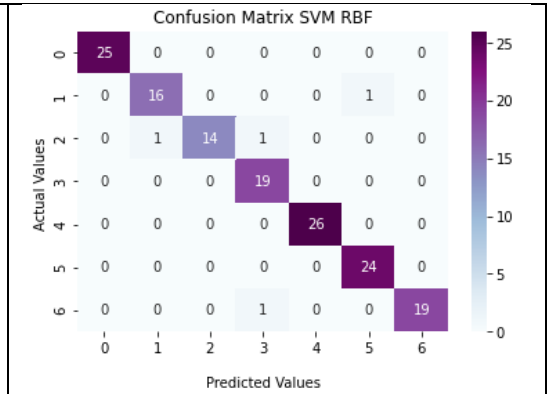
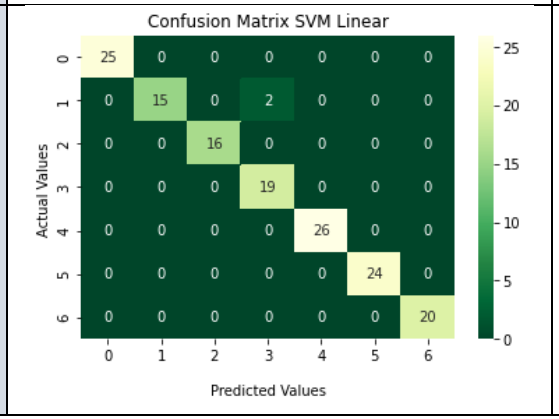
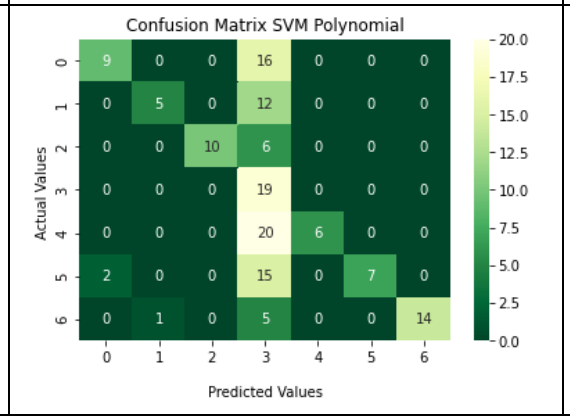
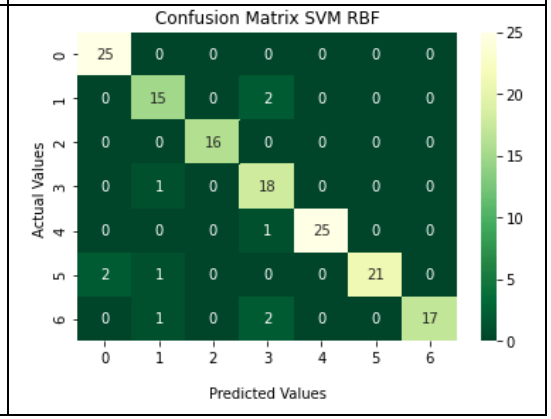


	Original Audio	0,625% Compressed Audio	1,25% Compressed Audio	2,5% Compressed Audio	5% Compressed Audio	10% Compressed Audio
Linear	0,08294	0,06222	0,06226	0,06274	0,08248	0,08634
Polynomial	0,09788	0,07356	0,0774	0,0846	0,09618	0,09982
RBF	0,1303	0,09286	0,09954	0,11624	0,13398	0,14118

Confusion Matrix

Scenario	Kernel		
	Linear	Polynomial	RBF
			
			

	 Confusion Matrix SVM Linear Actual Values Predicted Values	 Confusion Matrix SVM Polynomial Actual Values Predicted Values	 Confusion Matrix SVM RBF Actual Values Predicted Values
	 Confusion Matrix SVM Linear Actual Values Predicted Values	 Confusion Matrix SVM Polynomial Actual Values Predicted Values	 Confusion Matrix SVM RBF Actual Values Predicted Values

	 Confusion Matrix SVM Linear Actual Values Predicted Values	 Confusion Matrix SVM Polynomial Actual Values Predicted Values	 Confusion Matrix SVM RBF Actual Values Predicted Values
	 Confusion Matrix SVM Linear Actual Values Predicted Values	 Confusion Matrix SVM Polynomial Actual Values Predicted Values	 Confusion Matrix SVM RBF Actual Values Predicted Values