Draw the LDMS for the following molecules and list the number of shared and lone pairs of electrons around the central atom. (The central atom is underlined).

1. CH4
2. NH3
3. HF
4. Br2
5. CH3OH
6. O2
7. N2
8. CH3COOH
9. HCN
10. HClO
11. C2H2
12. CH2Cl2
13. C2Cl2
14. H2Te
15. NI3
16. NO2-1
17. NO3-1
18. SO4-2
19. SO3-2
20. CO3-2