## FILE FORMATS

The following information is of the data in the files created by WG-MCRSP-1.0 Application Software.

data files(.rn) contain the 128-byte data header before every frame of data . The header format is given below:

**Data Header (128 bytes)**

```
short int       Radar Type;             //. For 30MHz = 1,53MHz=2
short int       baudlength;             // Baud length of transmission
short int       nrgb;                   // No. of Range bins
short int       nfft;                   // No. of FFT points
short int       ncoh;                   // No. of Coherent integrations
short int       nicoh;                  // No. of Incoherent integrations
short int       ipp;                    // Inter pulse period
short int       pwd;                    // Pulse width in micro seconds
short int       cflg;                   // Code flag
short int       nwin;                   // No. of observation windows
short int       w1start;                // Window1 start
short int       w1len;                  // Window1 length
short int       w2start;                // Window2 start – not used
short int       w2len;                  // Window2 length – not used
short int       year;                   // Year
short int       month;                  // Month
short int       day;                    // Day
short int       hour;                   // Hour
short int       min;                    // Minute
short int       sec;                    // Seconds
short int       nbeams;                 // No of beams in a beam scan cycle
short int       beam;                   // Beam position (current)
short int       scancycle;              // Number of the beam scan cycle in progress
short int       attn;                   // Receiver attenuation level – not used
short int       w3start;                // 3rd window of observation– not used
short int       w3len;                  // 3rd window length– not used
short int       simrange1;              // Simulated signal range
short int       txpower;                // TX power
short int       winfn;                  // Window fn. used for FFT
short int       noofpulses;             // No of pulses in transmission – not used
short int       dtype;                  // Data type
short int       pulsedelay[9];          // Pulse delay from starting – not used
short int       stc_win;                // STC window length – not used
short int       pulsedelay10;           // Tenth pulse delay – not used
short int       pulsedelay11;           // Eleventh pulse delay – not used
short int       simrange2;              // Simulated signal  - 2 range  – not used
short int       stc_win_start;          // STC window start – not used
short int       noOfFreq;               // No of frequencies used in Tx seq. of IPP – not used
float           txIFFreq[4];            // IF values used in Transmission – not used
short int       operationMode;          // Whether DBS/SDI etc. – not used
short int       adptiveRefRange;        // Adaptive reference range – not used
short int       adaptiveRefLevel;       // % of the maximum – not used
char    commentCode; // comments of 256 type can be stored. Currently used to store RADAR Mode
char    comment[13 ];           // Sht file name
```

The File Name for data uses the following naming scheme:

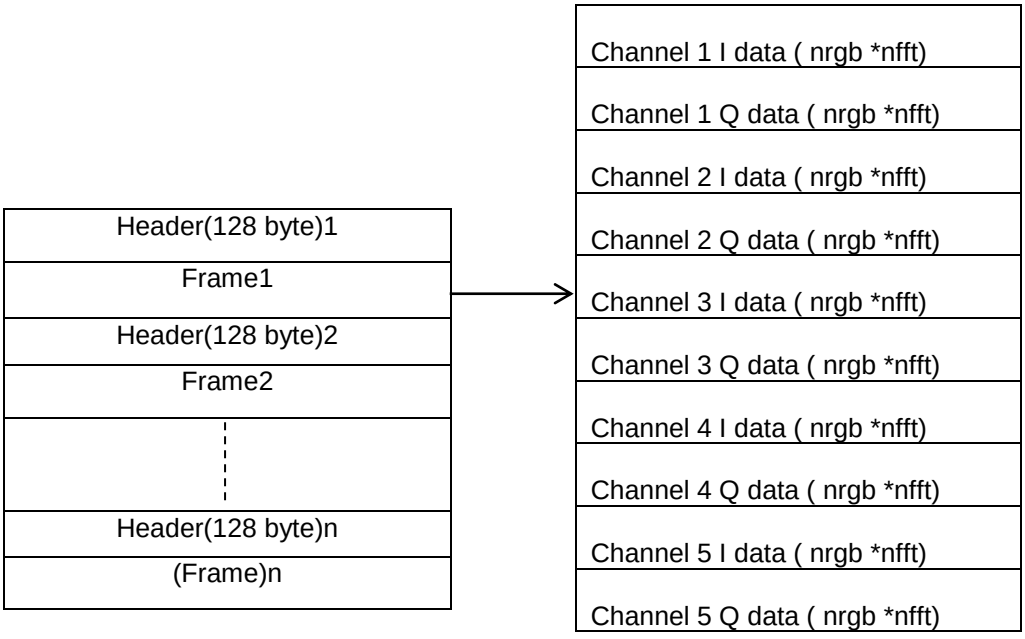
DDMMYYYY.file extension

DD => Date
MM => Month using the following possible values

January – JA
February – FE
March – MR
April – AP
May – MY
June – JU
July – JL
August – AU
September – SE
October – OC
November – NO
December – DE

YYYY => Year

- Data Format




n:Number of Cycles nrgb:Number of Range bins
nfft: Number of NFFT