

## 802.11a - Channel 52

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3509.375 PK     | 54.53                   | 74             | -19.47      | -49.82          | -49.84 | 6.09                   | -40.73           |
| 2   | 3506.25 AV      | 34.42                   | 54             | -19.58      | -70.28          | -69.63 | 6.09                   | -60.84           |
| 3   | 7012.5 PK       | 55.21                   | 74             | -18.79      | -47.81          | -51.09 | 6.09                   | -40.05           |
| 4   | 7012.5 AV       | 43.84                   | 54             | -10.16      | -57.94          | -67.76 | 6.09                   | -51.42           |
| 5   | 10521.875 PK    | 58.59                   | 74             | -15.41      | -48.67          | -44.05 | 6.09                   | -36.67           |
| 6   | 10521.875 AV    | 46.06                   | 54             | -7.94       | -62.28          | -56.26 | 6.09                   | -49.2            |
| 7   | 15774.125 PK    | 53.55                   | 74             | -20.45      | -50.77          | -50.85 | 6.09                   | -41.71           |
| 8   | 15800 AV        | 42.76                   | 54             | -11.24      | -61.58          | -61.63 | 6.09                   | -52.5            |

Note :

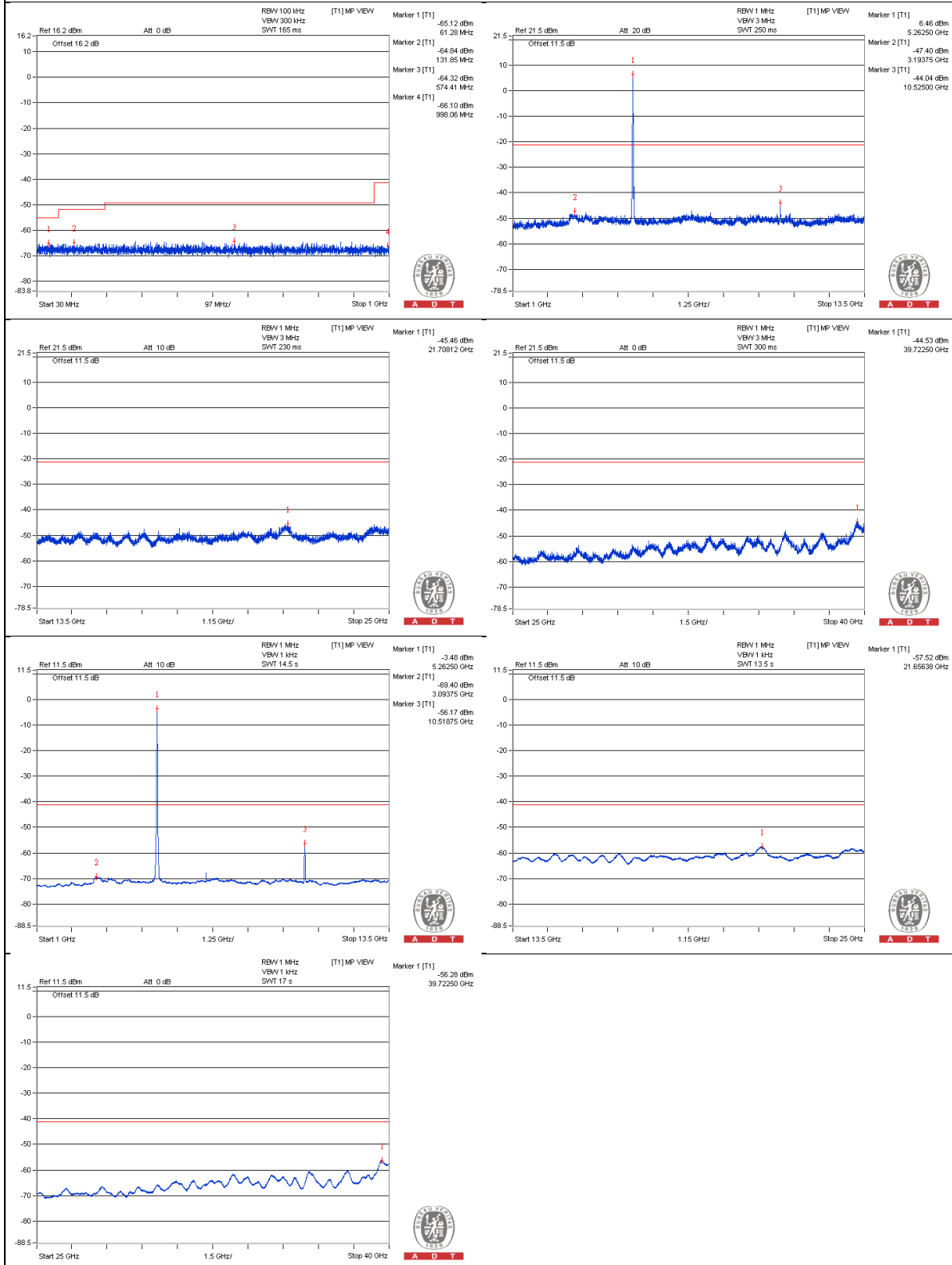
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11a - Channel 60

### Conducted spurious emission table

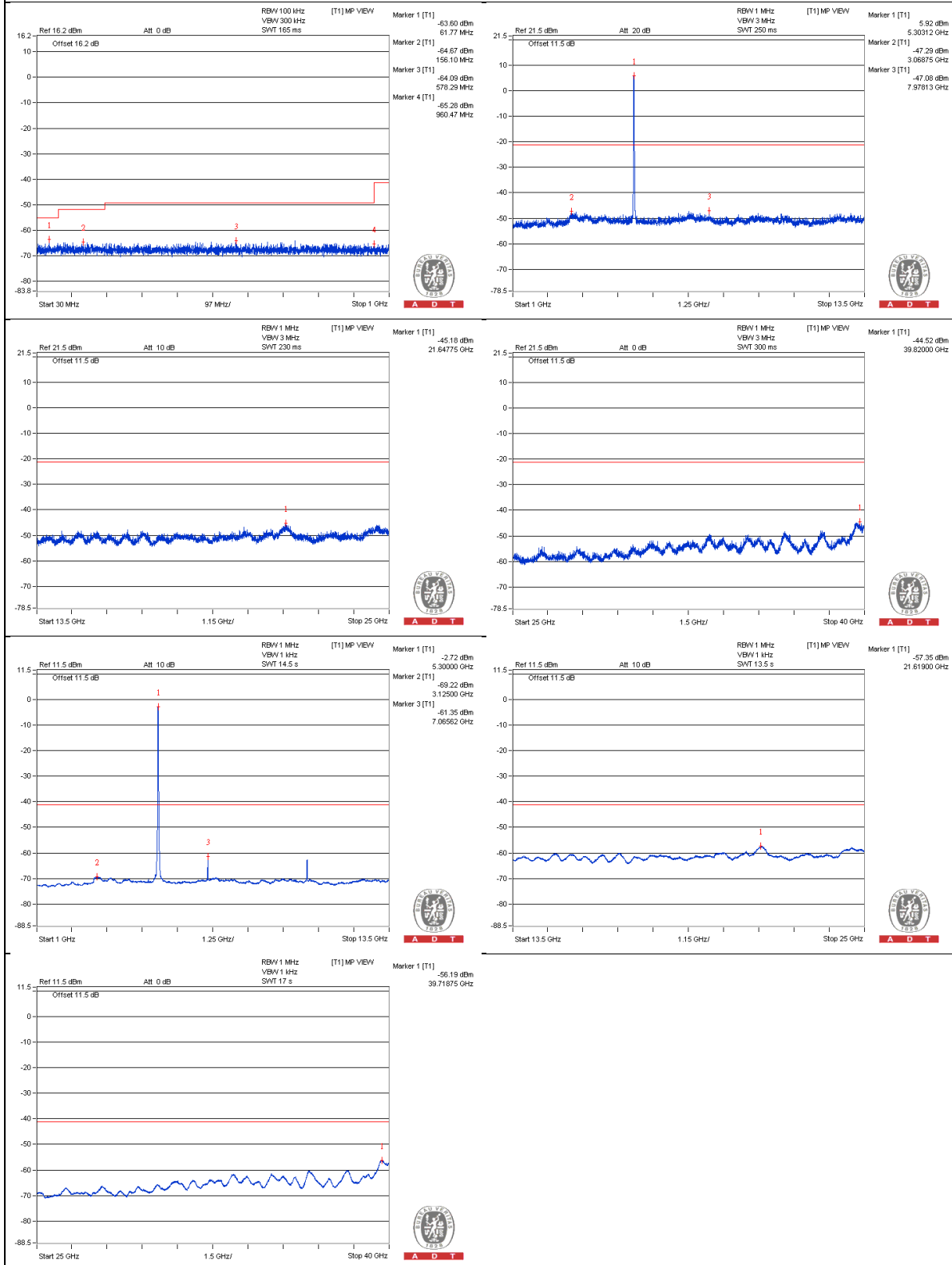
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3537.5 PK       | 55.31                   | 74             | -18.69      | -48.08          | -50.3  | 6.09                   | -39.95           |
| 2   | 3546.875 AV     | 34.13                   | 54             | -19.87      | -70.18          | -70.28 | 6.09                   | -61.13           |
| 3   | 7078.125 PK     | 55.48                   | 74             | -18.52      | -49.38          | -48.44 | 6.09                   | -39.78           |
| 4   | 7065.625 AV     | 40.71                   | 54             | -13.29      | -61.35          | -68.88 | 6.09                   | -54.55           |
| 5   | 10600 PK        | 58.15                   | 74             | -15.85      | -49.65          | -44.31 | 6.09                   | -37.11           |
| 6   | 10600 AV        | 46.5                    | 54             | -7.5        | -63.15          | -55.54 | 6.09                   | -48.76           |
| 7   | 15909.25 PK     | 54.03                   | 74             | -19.97      | -49.84          | -50.88 | 6.09                   | -41.23           |
| 8   | 15880.5 AV      | 42.69                   | 54             | -11.31      | -61.48          | -61.86 | 6.09                   | -52.57           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11a - Channel 64

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3550 PK         | 55.85                   | 74             | -18.15      | -48.17          | -48.87 | 6.09                   | -39.41           |
| 2   | 3546.875 AV     | 34.84                   | 54             | -19.16      | -69.93          | -69.15 | 6.09                   | -60.42           |
| 3   | 7087.5 PK       | 55.53                   | 74             | -18.47      | -49.5           | -48.25 | 6.09                   | -39.73           |
| 4   | 7093.75 AV      | 39.77                   | 54             | -14.23      | -62.3           | -69.71 | 6.09                   | -55.49           |
| 5   | 10643.75 PK     | 60.27                   | 74             | -13.73      | -48.35          | -41.98 | 6.09                   | -34.99           |
| 6   | 10640.625 AV    | 47.94                   | 54             | -6.06       | -63.59          | -53.85 | 6.09                   | -47.32           |
| 7   | 15940.875 PK    | 53.91                   | 74             | -20.09      | -50.78          | -50.15 | 6.09                   | -41.35           |
| 8   | 15940.875 AV    | 42.53                   | 54             | -11.47      | -61.81          | -61.86 | 6.09                   | -52.73           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

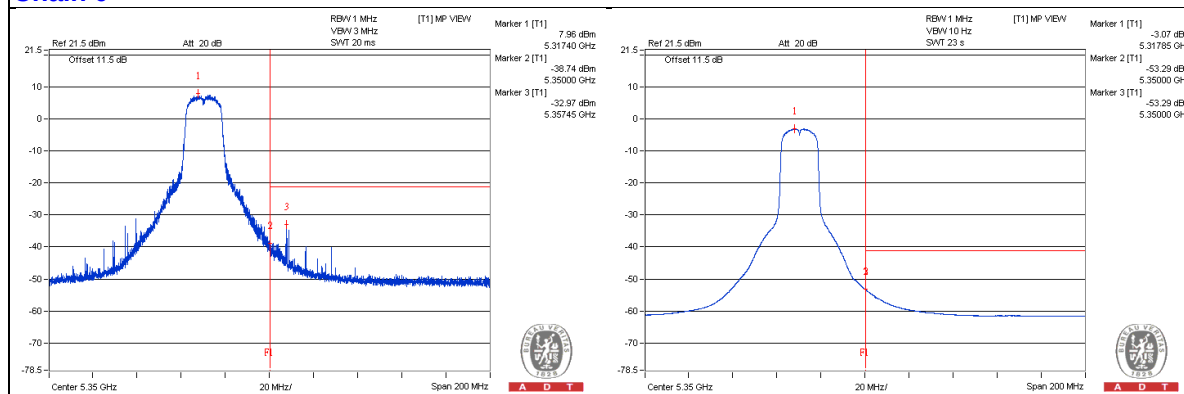
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5357.45 PK      | 68.54                   | 74             | -5.46       | -32.97          | -47.25 | 6.09                   | -26.72           |
| 2   | 5350 AV         | 50.39                   | 54             | -3.61       | -53.29          | -54.78 | 6.09                   | -44.87           |

Note :

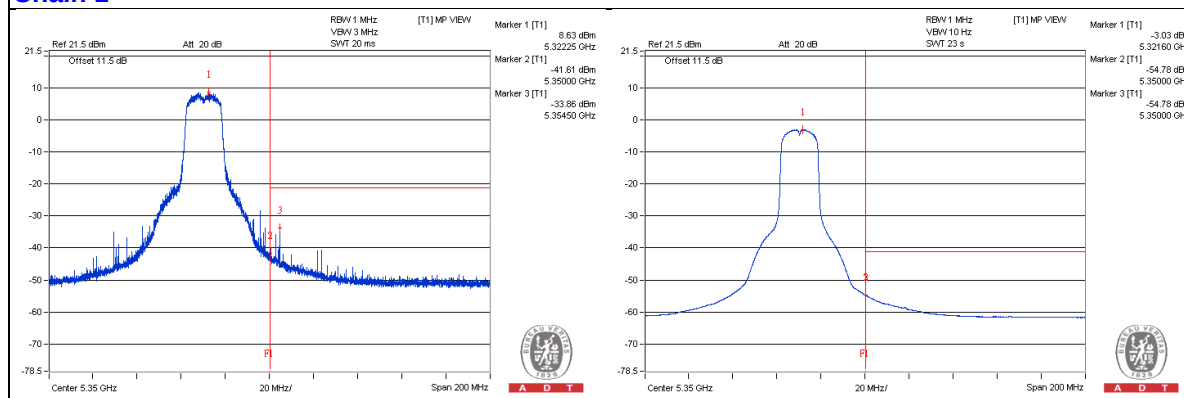
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11a - Channel 100

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3650 PK         | 57.18                   | 74             | -16.82      | -48.11          | -49.77 | 7.77                   | -38.08           |
| 2   | 3665.625 AV     | 40.57                   | 54             | -13.43      | -67.98          | -63.89 | 7.77                   | -54.69           |
| 3   | 7346.875 PK     | 57.37                   | 74             | -16.63      | -49.29          | -48.13 | 7.77                   | -37.89           |
| 4   | 7334.375 AV     | 37.93                   | 54             | -16.07      | -66.88          | -69.82 | 7.77                   | -57.33           |
| 5   | 11003.125 PK    | 61.65                   | 74             | -12.35      | -49.63          | -42.08 | 7.77                   | -33.61           |
| 6   | 11000 AV        | 50.31                   | 54             | -3.69       | -62.65          | -53.19 | 7.77                   | -44.95           |
| 7   | 16487.125 PK    | 56.3                    | 74             | -17.7       | -50.06          | -49.44 | 7.77                   | -38.96           |
| 8   | 16481.375 AV    | 45.11                   | 54             | -8.89       | -61.07          | -60.79 | 7.77                   | -50.15           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

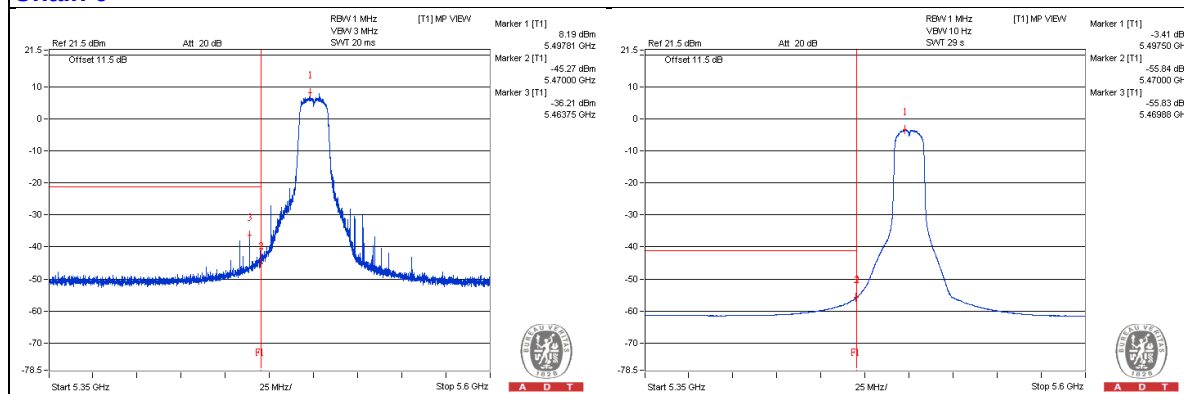
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5469.875 PK     | 69.42                   | 74             | -4.58       | -43.69          | -34.06 | 7.77                   | -25.84           |
| 2   | 5470 AV         | 50.76                   | 54             | -3.24       | -55.84          | -54.78 | 7.77                   | -44.5            |

Note :

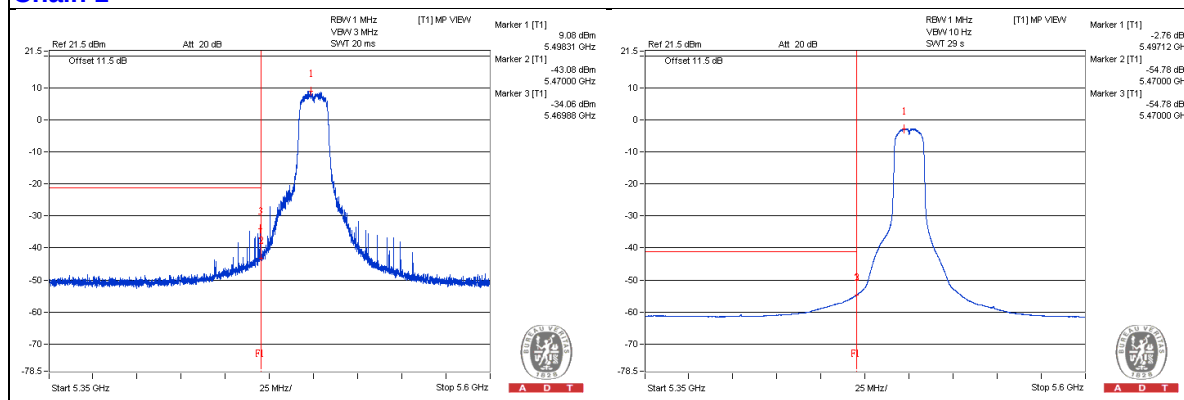
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11a - Channel 120

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3746.875 PK     | 56.82                   | 74             | -17.18      | -49.26          | -49.19 | 7.77                   | -38.44           |
| 2   | 3731.25 AV      | 39.42                   | 54             | -14.58      | -69.36          | -64.96 | 7.77                   | -55.84           |
| 3   | 7456.25 PK      | 57.15                   | 74             | -16.85      | -49.3           | -48.52 | 7.77                   | -38.11           |
| 4   | 7465.625 AV     | 37.1                    | 54             | -16.9       | -67.69          | -70.69 | 7.77                   | -58.16           |
| 5   | 11200 PK        | 58.47                   | 74             | -15.53      | -51.26          | -45.61 | 7.77                   | -36.79           |
| 6   | 11203.125 AV    | 47.64                   | 54             | -6.36       | -67.07          | -55.7  | 7.77                   | -47.62           |
| 7   | 16809.125 PK    | 55.52                   | 74             | -18.48      | -50.64          | -50.4  | 7.77                   | -39.74           |
| 8   | 16817.75 AV     | 44.24                   | 54             | -9.76       | -61.69          | -61.91 | 7.77                   | -51.02           |

Note :

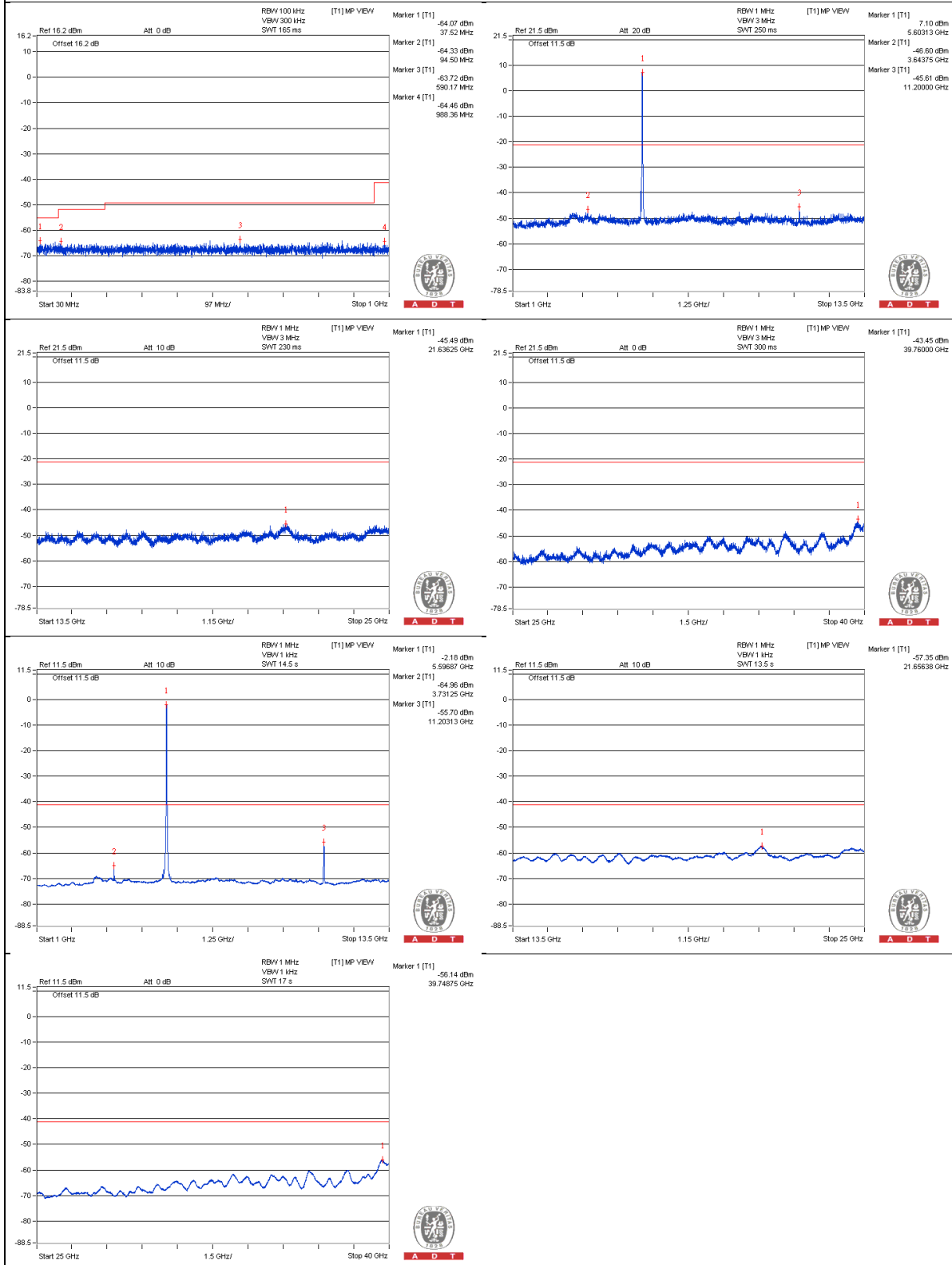
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11a - Channel 140

### Conducted spurious emission table

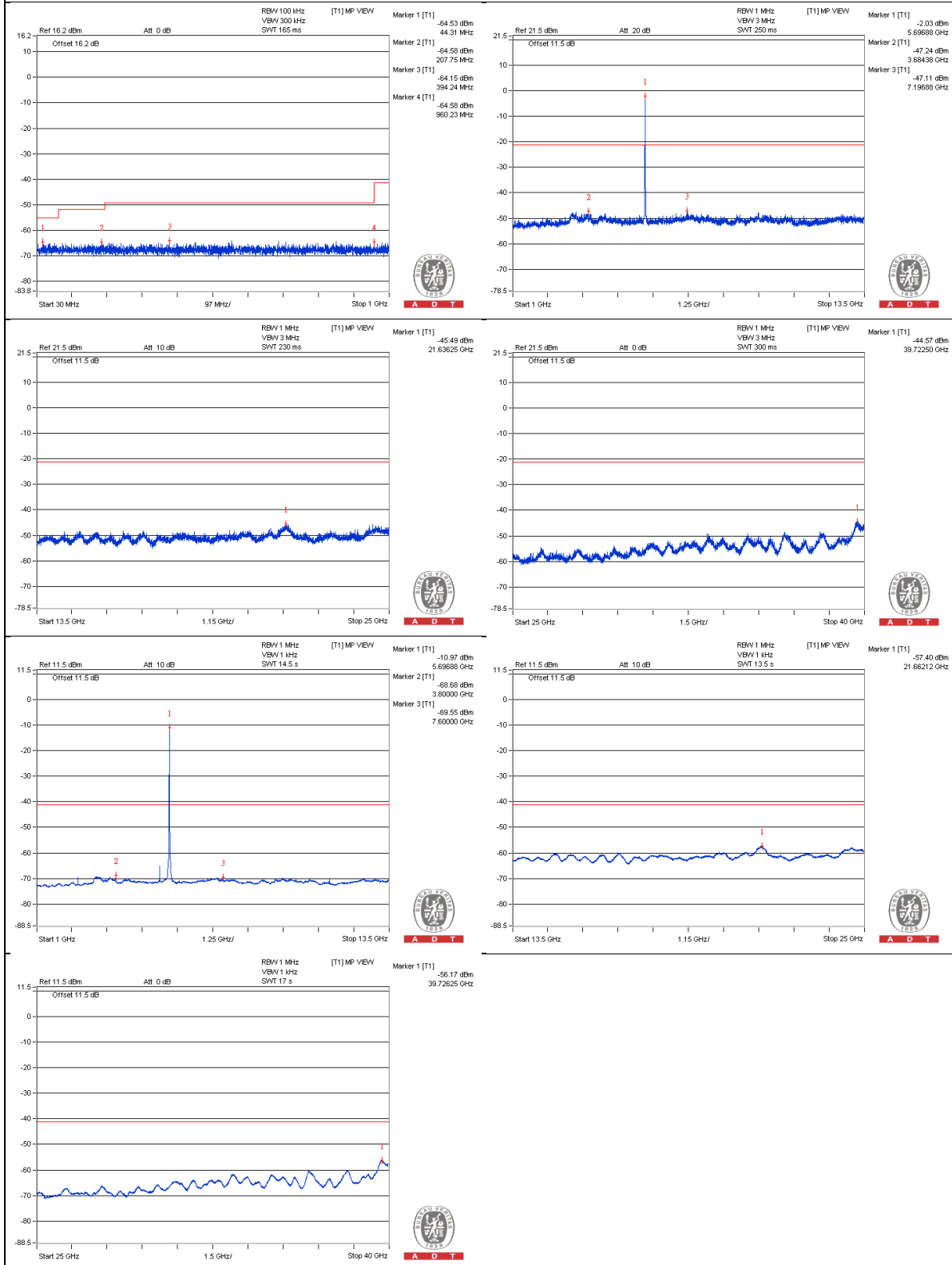
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3800 PK         | 55.91                   | 74             | -18.09      | -50.86          | -49.51 | 7.77                   | -39.35           |
| 2   | 3800 AV         | 43.22                   | 54             | -10.78      | -68.68          | -60.41 | 7.77                   | -52.04           |
| 3   | 7606.25 PK      | 56.48                   | 74             | -17.52      | -49.47          | -49.65 | 7.77                   | -38.78           |
| 4   | 7600 AV         | 36.07                   | 54             | -17.93      | -69.55          | -70.44 | 7.77                   | -59.19           |
| 5   | 11396.875 PK    | 55.41                   | 74             | -18.59      | -50.93          | -50.35 | 7.77                   | -39.85           |
| 6   | 11403.125 AV    | 38.81                   | 54             | -15.19      | -70.77          | -65.3  | 7.77                   | -56.45           |
| 7   | 17105.25 PK     | 55.55                   | 74             | -18.45      | -51.46          | -49.7  | 7.77                   | -39.71           |
| 8   | 17093.75 AV     | 44.44                   | 54             | -9.56       | -61.63          | -61.58 | 7.77                   | -50.82           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

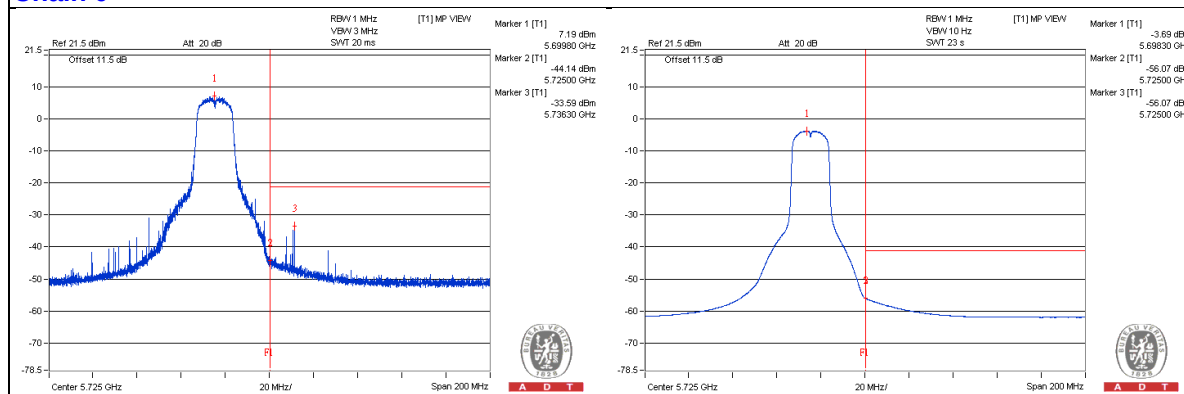
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5731.15 PK      | 72.15                   | 74             | -1.85       | -47.26          | -30.98 | 7.77                   | -23.11           |
| 2   | 5725 AV         | 51.81                   | 54             | -2.19       | -56.07          | -52.94 | 7.77                   | -43.45           |

Note :

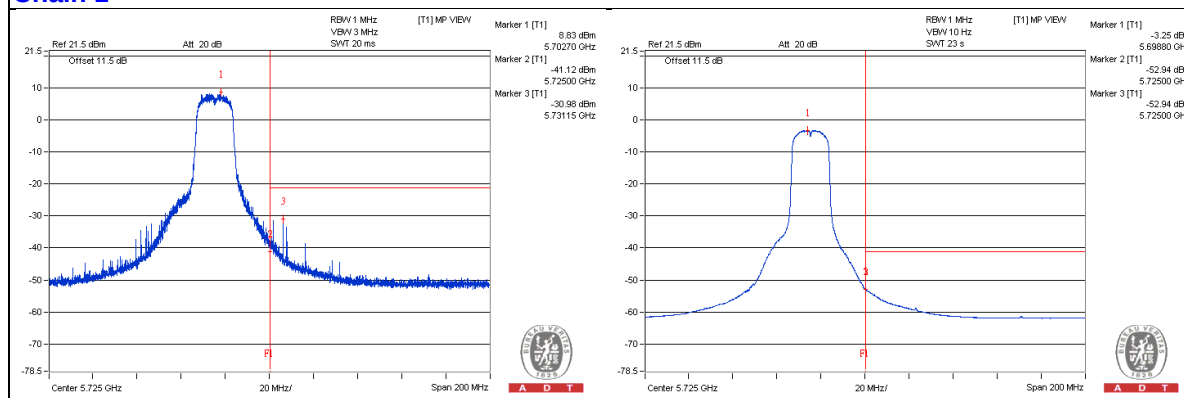
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11a - Channel 144

### Conducted spurious emission table

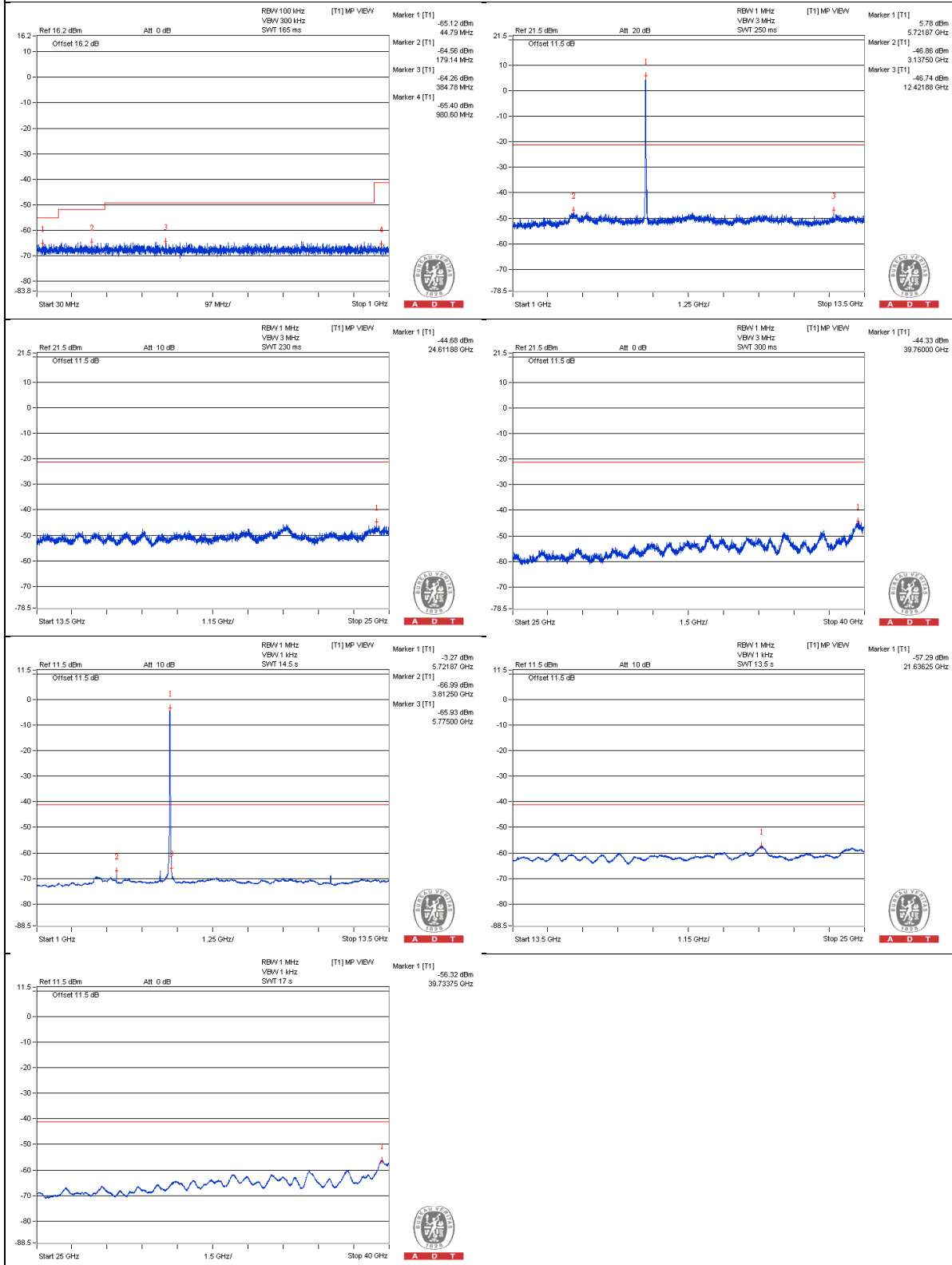
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3815.625 PK     | 55.77                   | 74             | -18.23      | -50.6           | -49.96 | 7.77                   | -39.49           |
| 2   | 3812.5 AV       | 42.93                   | 54             | -11.07      | -66.99          | -61.1  | 7.77                   | -52.33           |
| 3   | 7612.5 PK       | 56.84                   | 74             | -17.16      | -49.03          | -49.38 | 7.77                   | -38.42           |
| 4   | 7628.125 AV     | 35.22                   | 54             | -18.78      | -70.83          | -70.81 | 7.77                   | -60.04           |
| 5   | 11437.5 PK      | 56.44                   | 74             | -17.56      | -51.1           | -48.48 | 7.77                   | -38.82           |
| 6   | 11443.75 AV     | 43.15                   | 54             | -10.85      | -68.89          | -60.46 | 7.77                   | -52.11           |
| 7   | 17154.125 PK    | 56.29                   | 74             | -17.71      | -50.05          | -49.47 | 7.77                   | -38.97           |
| 8   | 17148.375 AV    | 43.64                   | 54             | -10.36      | -62.28          | -62.53 | 7.77                   | -51.62           |

Note :

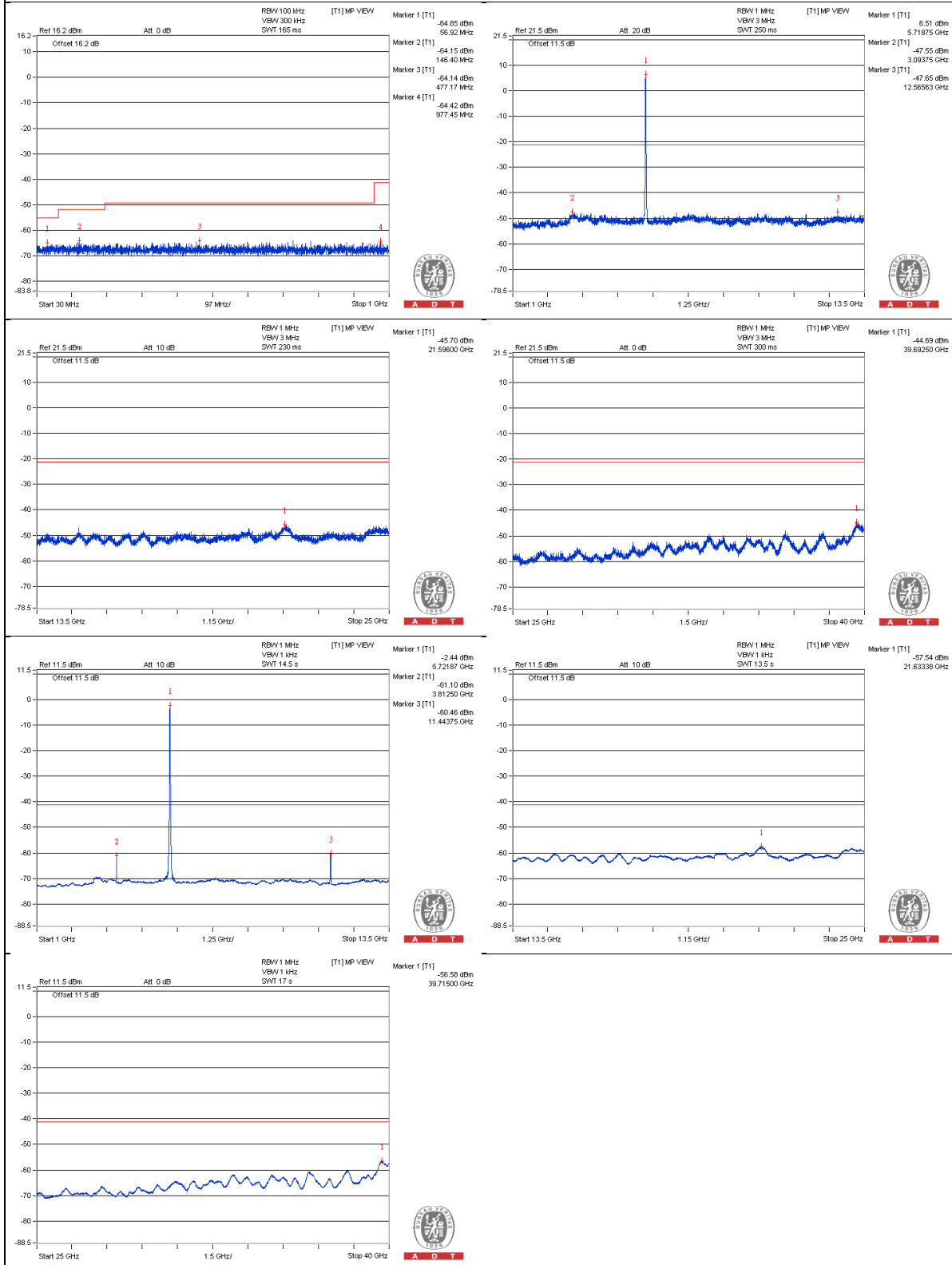
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

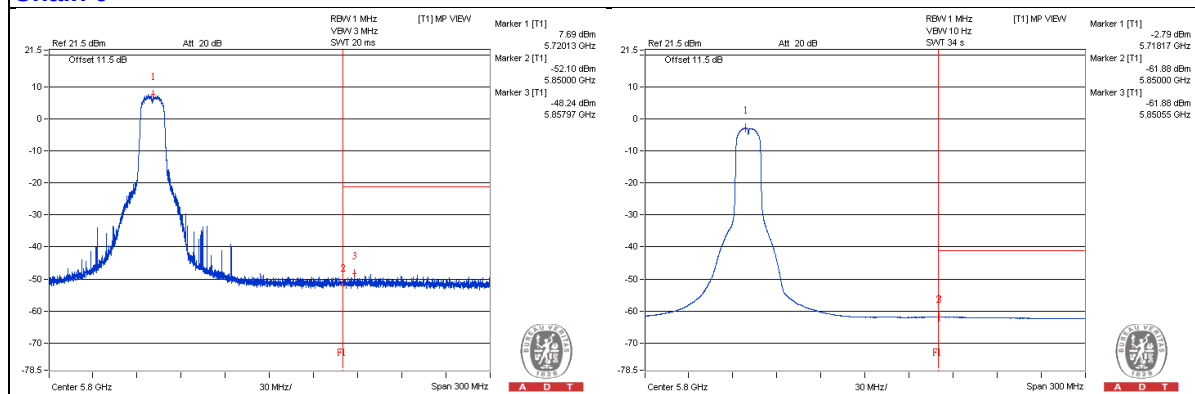
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5857.975 PK     | 56.69                   | 74             | -17.31      | -48.24          | -50.85 | 7.77                   | -38.57           |
| 2   | 5850.775 AV     | 44.1                    | 54             | -9.9        | -61.88          | -62    | 7.77                   | -51.16           |

Note :

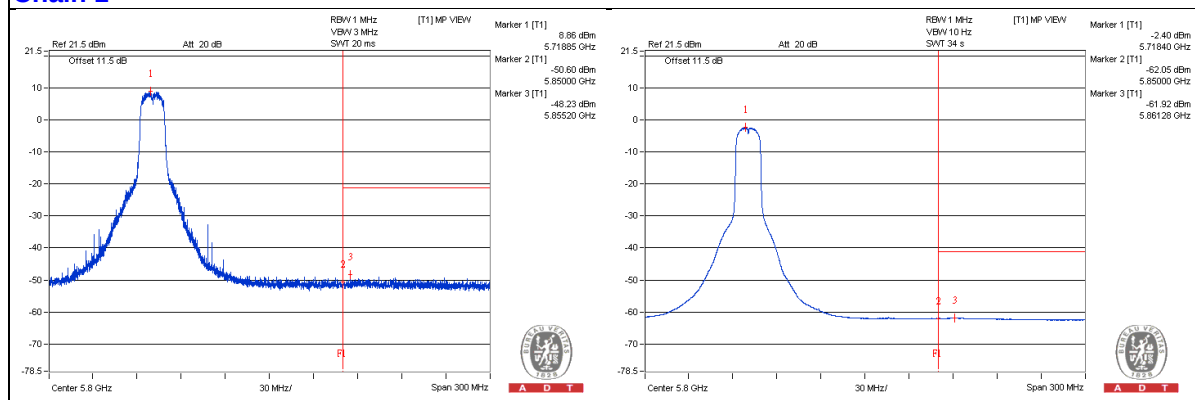
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT20) - Channel 36

### Conducted spurious emission table

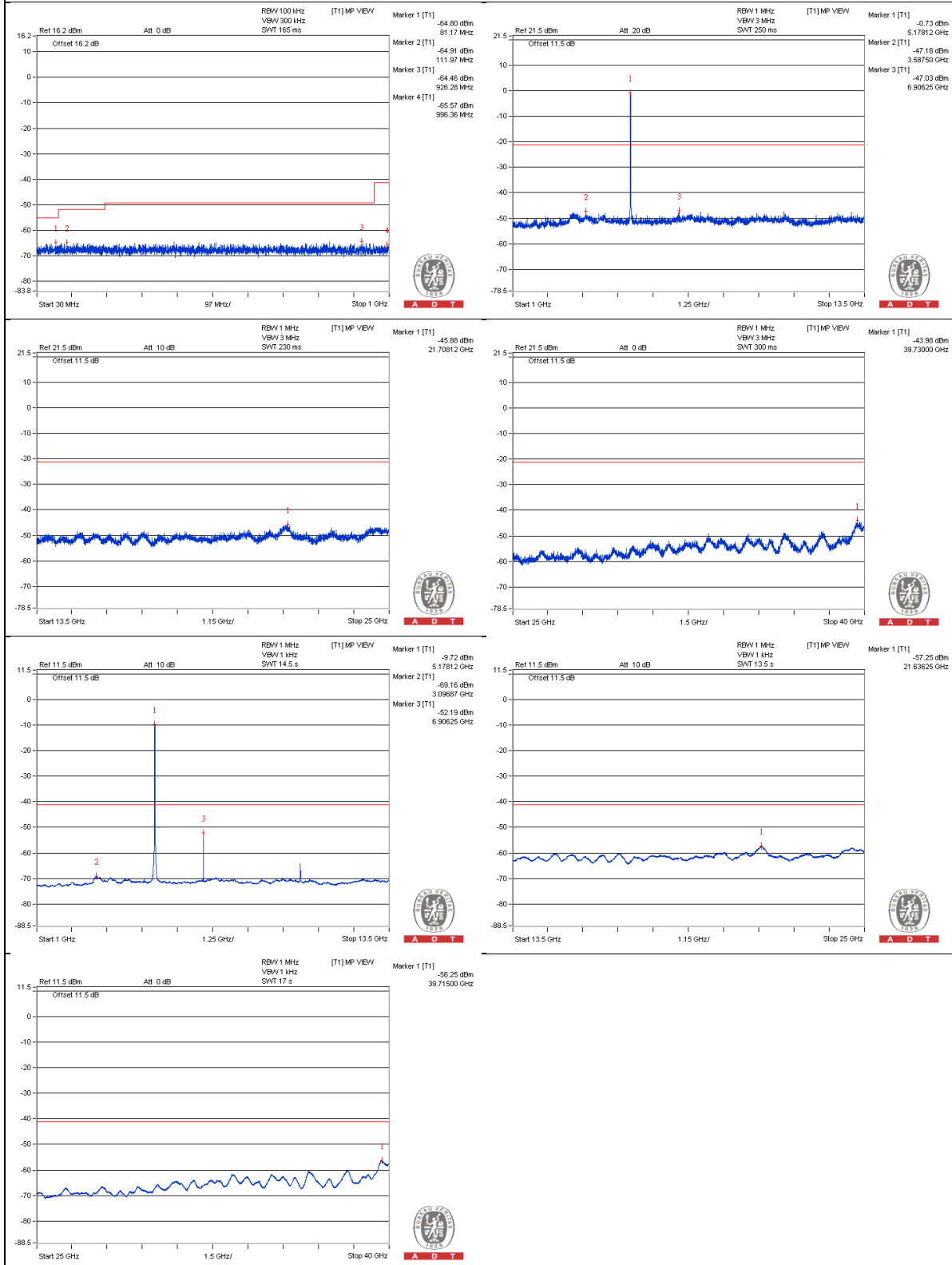
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3437.5 PK       | 54.55                   | 74             | -19.45      | -49.85          | -49.77 | 6.09                   | -40.71           |
| 2   | 3453.125 AV     | 33.8                    | 54             | -20.2       | -71.06          | -70.11 | 6.09                   | -61.46           |
| 3   | 6906.25 PK      | 56.86                   | 74             | -17.14      | -47.03          | -48.03 | 6.09                   | -38.4            |
| 4   | 6906.25 AV      | 49.79                   | 54             | -4.21       | -52.19          | -60.28 | 6.09                   | -45.47           |
| 5   | 10368.75 PK     | 55.01                   | 74             | -18.99      | -49.76          | -48.97 | 6.09                   | -40.25           |
| 6   | 10359.375 AV    | 39.82                   | 54             | -14.18      | -64.12          | -65.01 | 6.09                   | -55.44           |
| 7   | 15521.125 PK    | 54.67                   | 74             | -19.33      | -50.65          | -48.9  | 6.09                   | -40.59           |
| 8   | 15529.75 AV     | 42.98                   | 54             | -11.02      | -61.56          | -61.21 | 6.09                   | -52.28           |

Note :

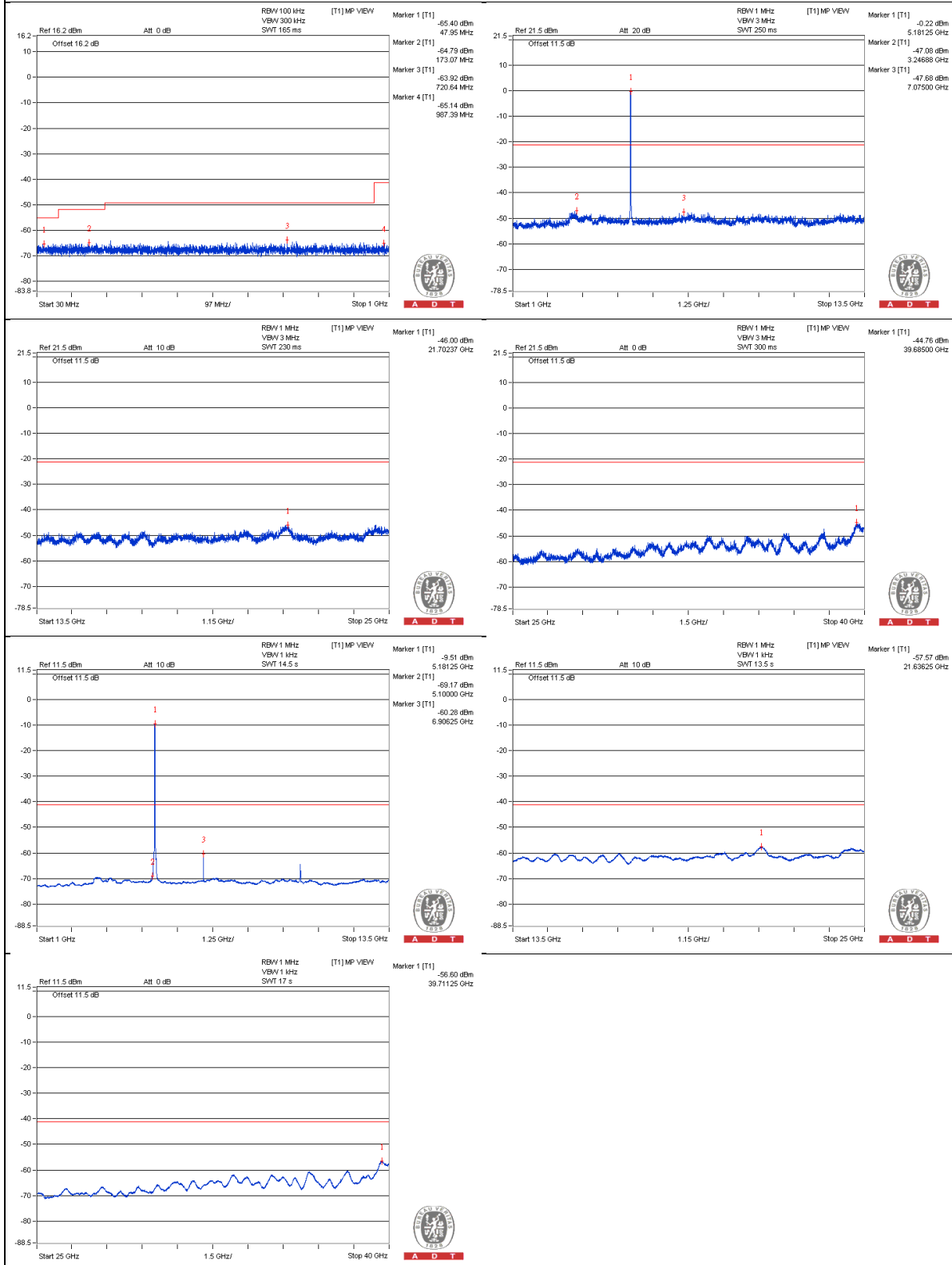
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

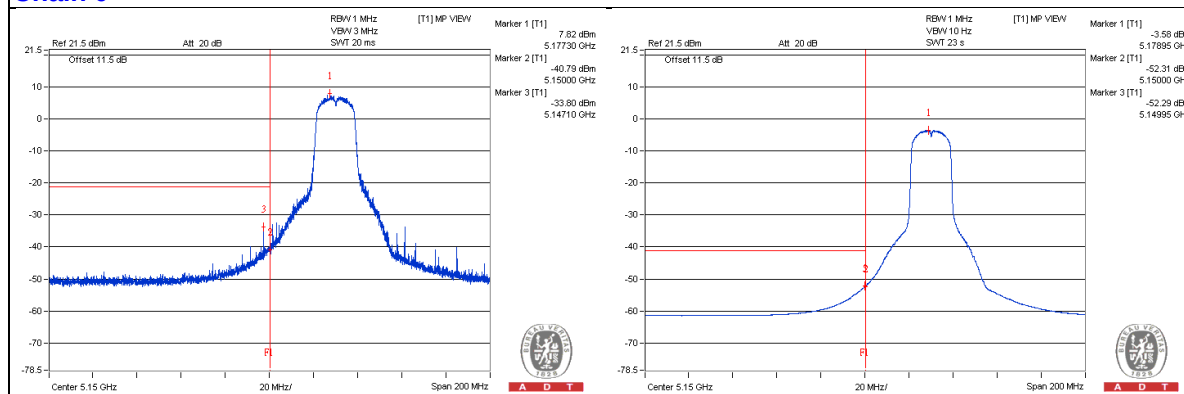
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5148.3 PK       | 70.51                   | 74             | -3.49       | -41.64          | -31.22 | 6.09                   | -24.75           |
| 2   | 5150 AV         | 52.38                   | 54             | -1.62       | -52.31          | -51.68 | 6.09                   | -42.88           |

Note :

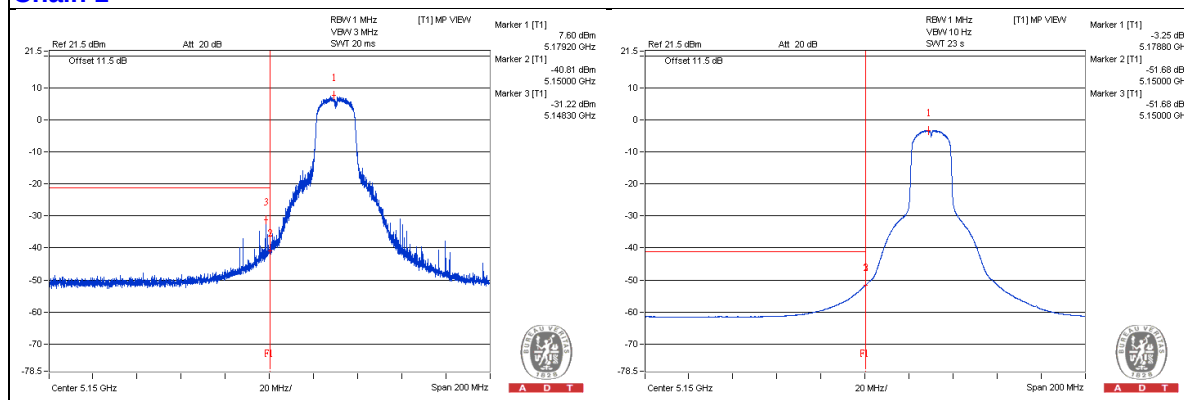
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT20) - Channel 40

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3478.125 PK     | 54.38                   | 74             | -19.62      | -49.21          | -50.91 | 6.09                   | -40.88           |
| 2   | 3462.5 AV       | 33.44                   | 54             | -20.56      | -70.95          | -70.89 | 6.09                   | -61.82           |
| 3   | 6931.25 PK      | 55.11                   | 74             | -18.89      | -49.52          | -49    | 6.09                   | -40.15           |
| 4   | 6934.375 AV     | 47.42                   | 54             | -6.58       | -54.49          | -63.14 | 6.09                   | -47.84           |
| 5   | 10393.75 PK     | 61.02                   | 74             | -12.98      | -47.22          | -41.32 | 6.09                   | -34.24           |
| 6   | 10396.875 AV    | 50.37                   | 54             | -3.63       | -59.01          | -51.72 | 6.09                   | -44.89           |
| 7   | 15587.25 PK     | 53.17                   | 74             | -20.83      | -51.52          | -50.88 | 6.09                   | -42.09           |
| 8   | 15584.375 AV    | 42.15                   | 54             | -11.85      | -62.15          | -62.28 | 6.09                   | -53.11           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT20) - Channel 48

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3509.375 PK     | 55.24                   | 74             | -18.76      | -48.15          | -50.37 | 6.09                   | -40.02           |
| 2   | 3493.75 AV      | 33.88                   | 54             | -20.12      | -70.74          | -70.24 | 6.09                   | -61.38           |
| 3   | 6987.5 PK       | 54.89                   | 74             | -19.11      | -48.8           | -50.27 | 6.09                   | -40.37           |
| 4   | 6987.5 AV       | 46.7                    | 54             | -7.3        | -55.05          | -65.25 | 6.09                   | -48.56           |
| 5   | 10487.5 PK      | 57.2                    | 74             | -16.8       | -48.24          | -46.3  | 6.09                   | -38.06           |
| 6   | 10478.125 AV    | 45.83                   | 54             | -8.17       | -62.05          | -56.61 | 6.09                   | -49.43           |
| 7   | 15722.375 PK    | 53.13                   | 74             | -20.87      | -50.42          | -52.22 | 6.09                   | -42.13           |
| 8   | 15736.75 AV     | 41.99                   | 54             | -12.01      | -62.28          | -62.47 | 6.09                   | -53.27           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT20) - Channel 52

### Conducted spurious emission table

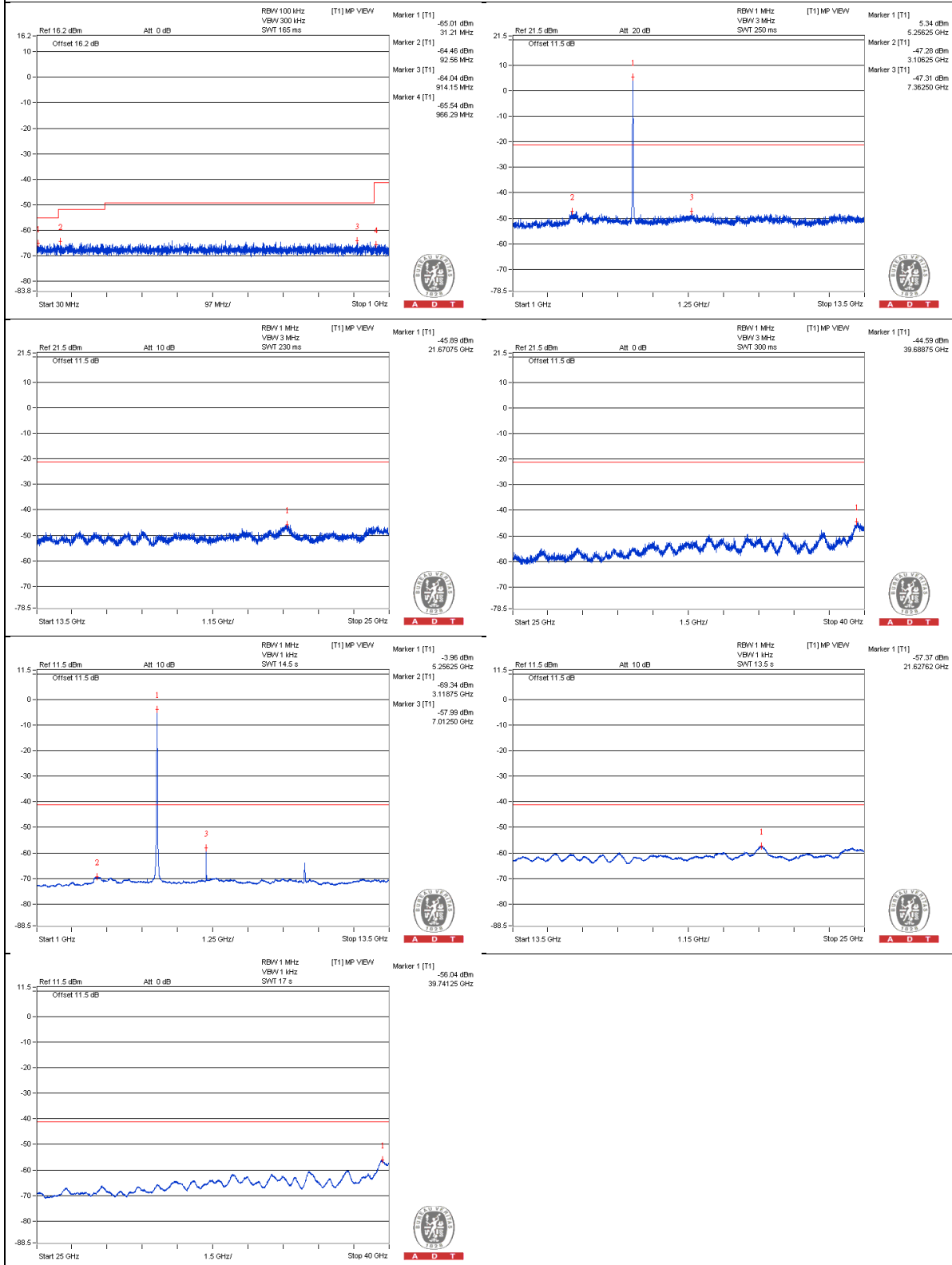
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3515.625 PK     | 55.34                   | 74             | -18.66      | -49.04          | -49.01 | 6.09                   | -39.92           |
| 2   | 3506.25 AV      | 34.58                   | 54             | -19.42      | -70             | -69.57 | 6.09                   | -60.68           |
| 3   | 7031.25 PK      | 54.77                   | 74             | -19.23      | -49.44          | -49.74 | 6.09                   | -40.49           |
| 4   | 7012.5 AV       | 43.77                   | 54             | -10.23      | -57.99          | -68.02 | 6.09                   | -51.49           |
| 5   | 10521.875 PK    | 57.56                   | 74             | -16.44      | -49.2           | -45.27 | 6.09                   | -37.7            |
| 6   | 10518.75 AV     | 45.17                   | 54             | -8.83       | -64.51          | -56.87 | 6.09                   | -50.09           |
| 7   | 15797.125 PK    | 53.55                   | 74             | -20.45      | -50.42          | -51.25 | 6.09                   | -41.71           |
| 8   | 15800 AV        | 42.95                   | 54             | -11.05      | -61.47          | -61.35 | 6.09                   | -52.31           |

Note :

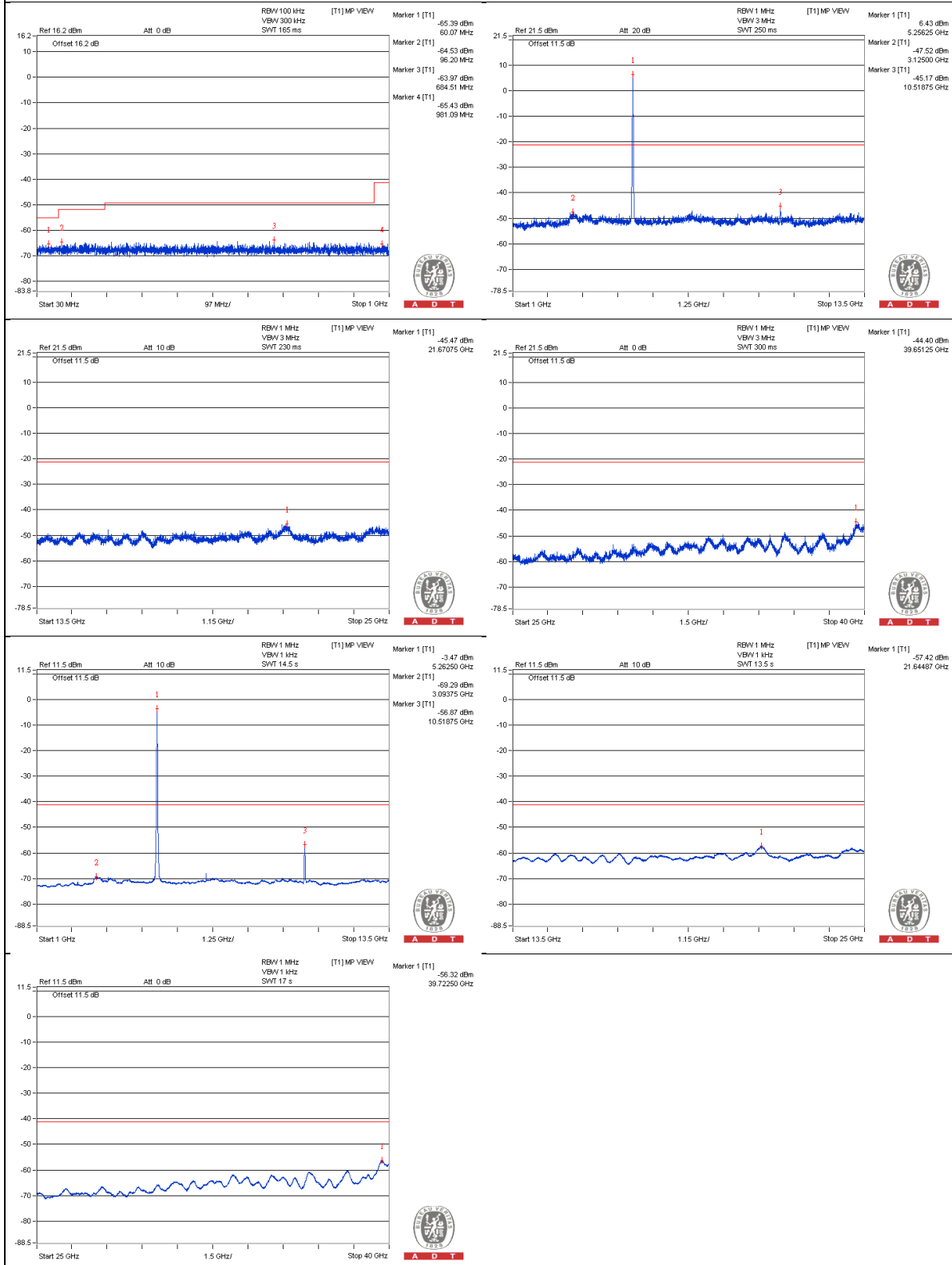
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT20) - Channel 60

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3550 PK         | 54.89                   | 74             | -19.11      | -49.46          | -49.48 | 6.09                   | -40.37           |
| 2   | 3553.125 AV     | 34.08                   | 54             | -19.92      | -70.28          | -70.29 | 6.09                   | -61.18           |
| 3   | 7068.75 PK      | 55.02                   | 74             | -18.98      | -48.19          | -50.92 | 6.09                   | -40.24           |
| 4   | 7065.625 AV     | 41                      | 54             | -13         | -60.97          | -69.1  | 6.09                   | -54.26           |
| 5   | 10606.25 PK     | 57.57                   | 74             | -16.43      | -49.53          | -45.13 | 6.09                   | -37.69           |
| 6   | 10600 AV        | 45.16                   | 54             | -8.84       | -63.88          | -57    | 6.09                   | -50.1            |
| 7   | 15883.375 PK    | 54.52                   | 74             | -19.48      | -50.32          | -49.41 | 6.09                   | -40.74           |
| 8   | 15892 AV        | 42.75                   | 54             | -11.25      | -61.48          | -61.74 | 6.09                   | -52.51           |

Note :

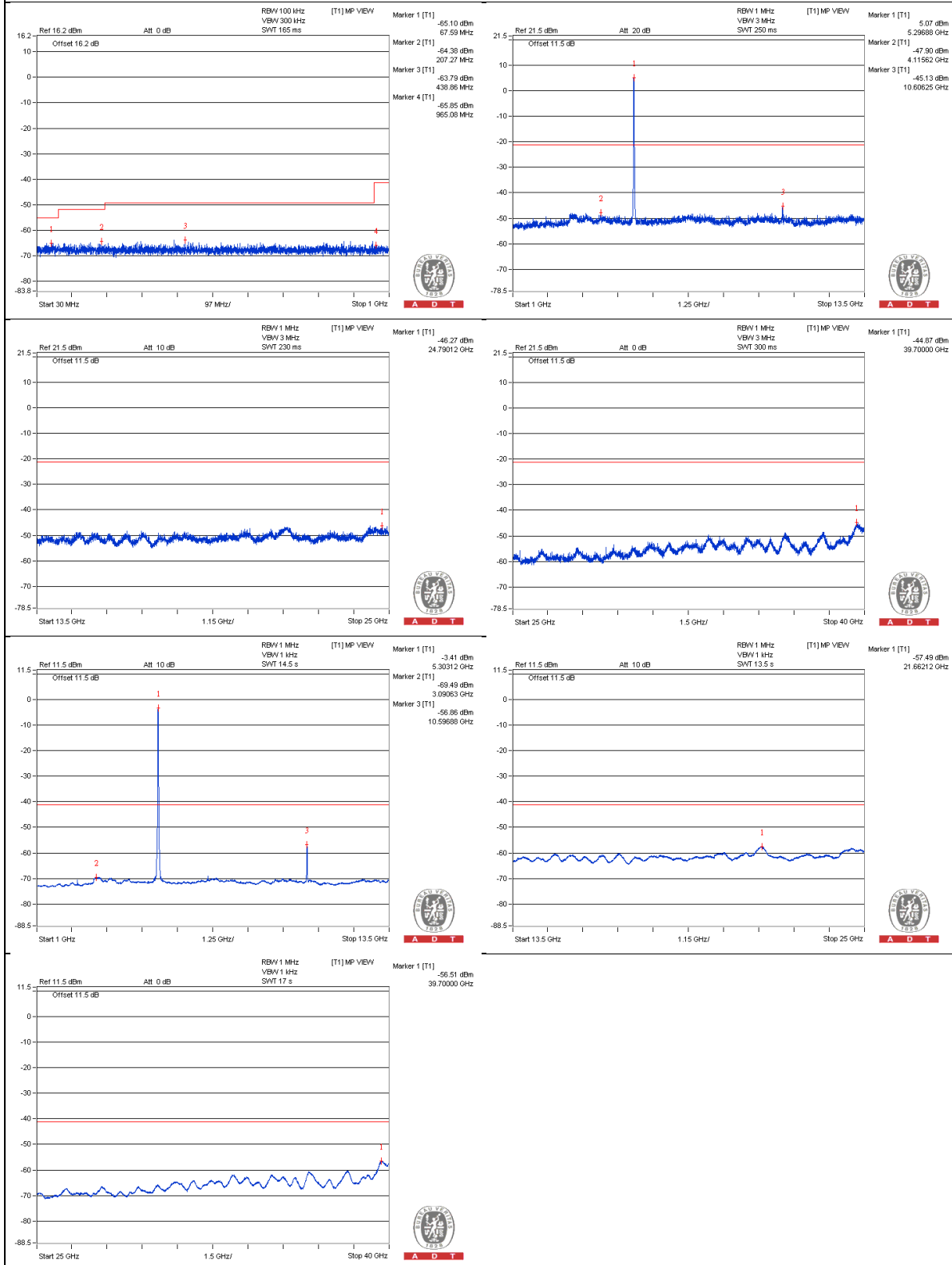
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT20) - Channel 64

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3540.625 PK     | 55                      | 74             | -19         | -49.06          | -49.69 | 6.09                   | -40.26           |
| 2   | 3546.875 AV     | 34.47                   | 54             | -19.53      | -70.28          | -69.53 | 6.09                   | -60.79           |
| 3   | 7093.75 PK      | 55.06                   | 74             | -18.94      | -48.89          | -49.76 | 6.09                   | -40.2            |
| 4   | 7093.75 AV      | 42.94                   | 54             | -11.06      | -58.78          | -69.26 | 6.09                   | -52.32           |
| 5   | 10653.125 PK    | 54.65                   | 74             | -19.35      | -50.29          | -49.2  | 6.09                   | -40.61           |
| 6   | 10640.625 AV    | 37.39                   | 54             | -16.61      | -68.93          | -65.62 | 6.09                   | -57.87           |
| 7   | 15969.625 PK    | 53.04                   | 74             | -20.96      | -51.2           | -51.45 | 6.09                   | -42.22           |
| 8   | 15958.125 AV    | 41.98                   | 54             | -12.02      | -62.3           | -62.47 | 6.09                   | -53.28           |

Note :

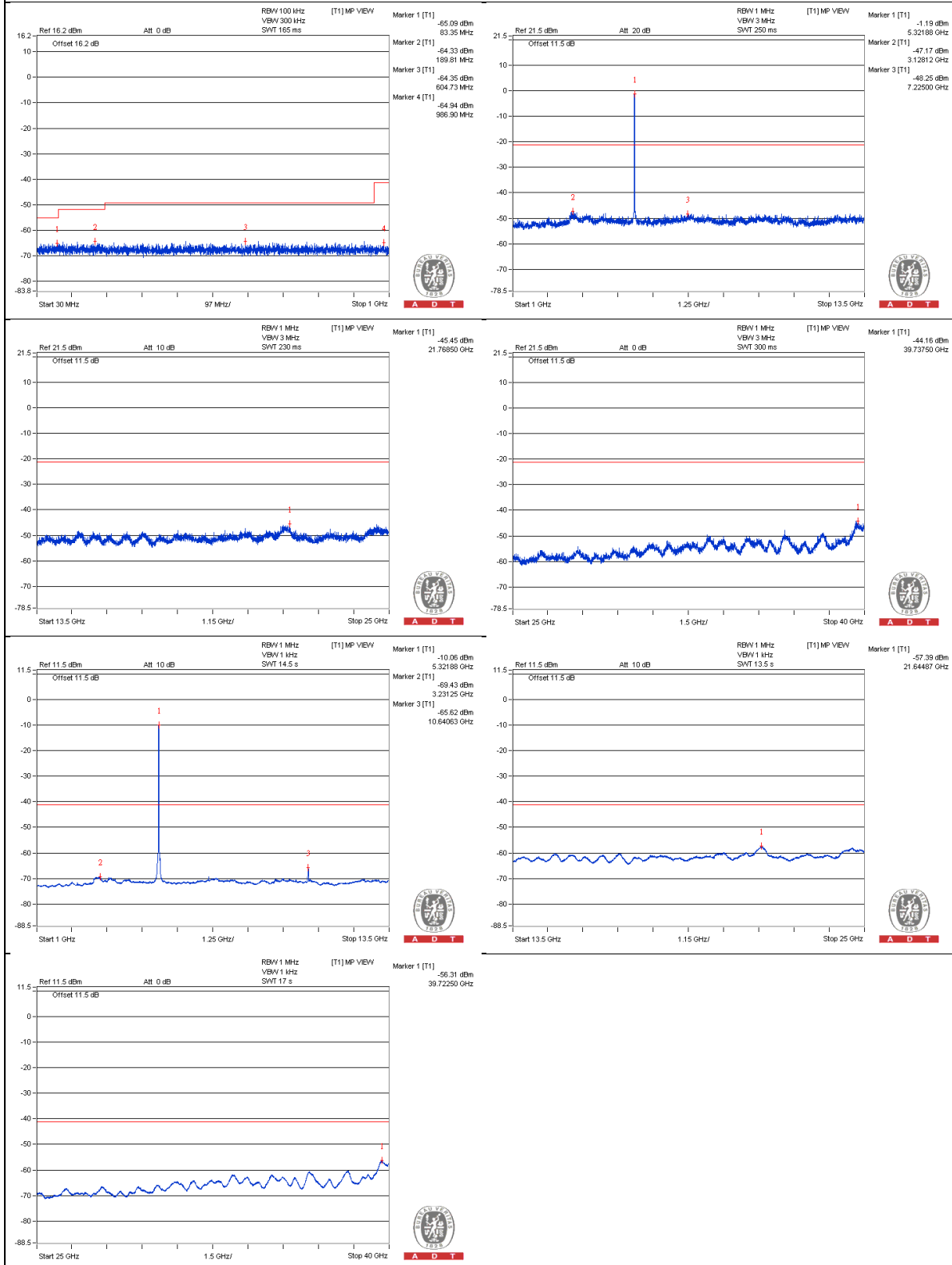
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

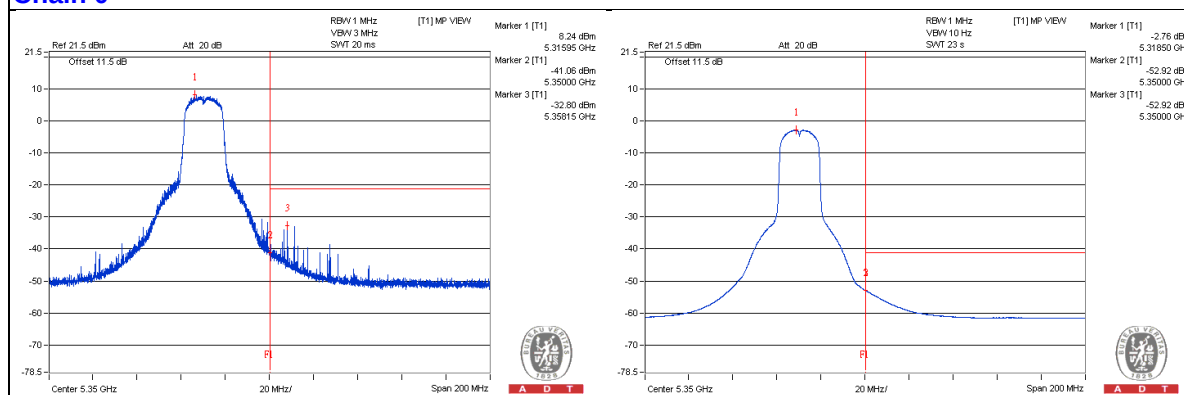
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5358.45 PK      | 70.13                   | 74             | -3.87       | -45.16          | -31.4  | 6.09                   | -25.13           |
| 2   | 5350 AV         | 51.02                   | 54             | -2.98       | -52.92          | -53.8  | 6.09                   | -44.24           |

Note :

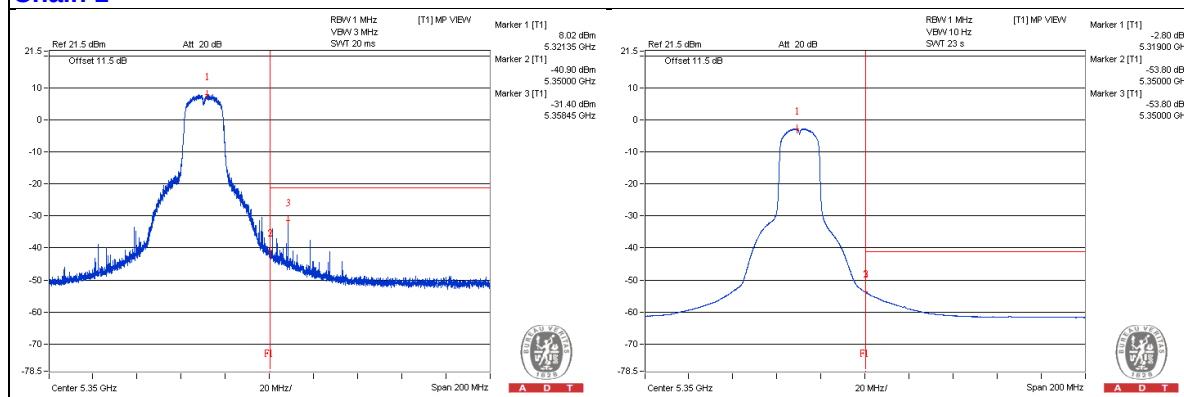
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT20) - Channel 100

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3650 PK         | 56.66                   | 74             | -17.34      | -49.79          | -49    | 7.77                   | -38.6            |
| 2   | 3665.625 AV     | 40.61                   | 54             | -13.39      | -68.84          | -63.54 | 7.77                   | -54.65           |
| 3   | 7334.375 PK     | 57.46                   | 74             | -16.54      | -49.29          | -47.97 | 7.77                   | -37.8            |
| 4   | 7334.375 AV     | 40.42                   | 54             | -13.58      | -63.45          | -70.18 | 7.77                   | -54.84           |
| 5   | 10993.75 PK     | 55.97                   | 74             | -18.03      | -50.54          | -49.65 | 7.77                   | -39.29           |
| 6   | 11003.125 AV    | 40.95                   | 54             | -13.05      | -68.42          | -63.23 | 7.77                   | -54.31           |
| 7   | 16504.375 PK    | 56.1                    | 74             | -17.9       | -50.49          | -49.45 | 7.77                   | -39.16           |
| 8   | 16481.375 AV    | 44.77                   | 54             | -9.23       | -61.14          | -61.4  | 7.77                   | -50.49           |

Note :

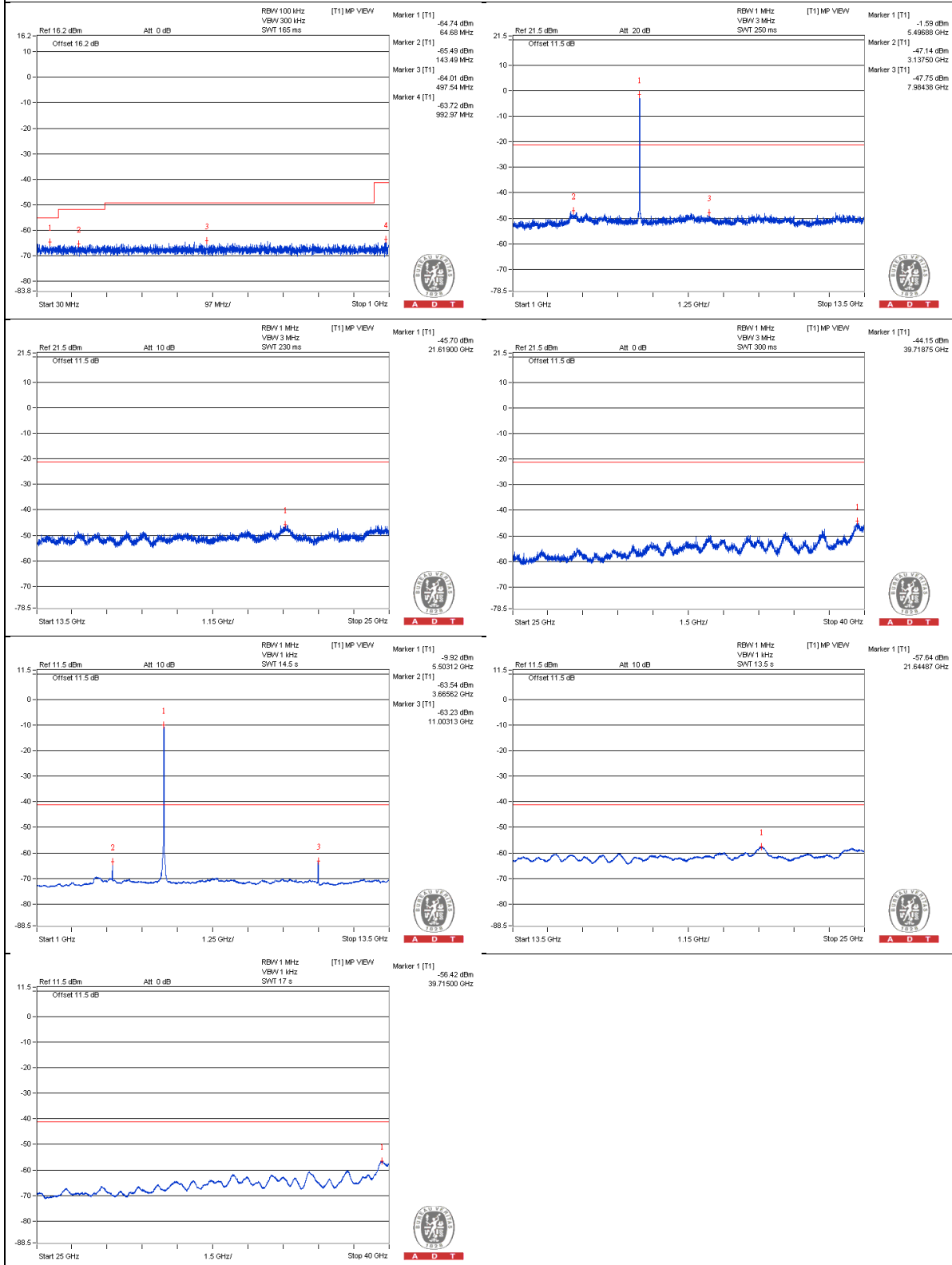
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

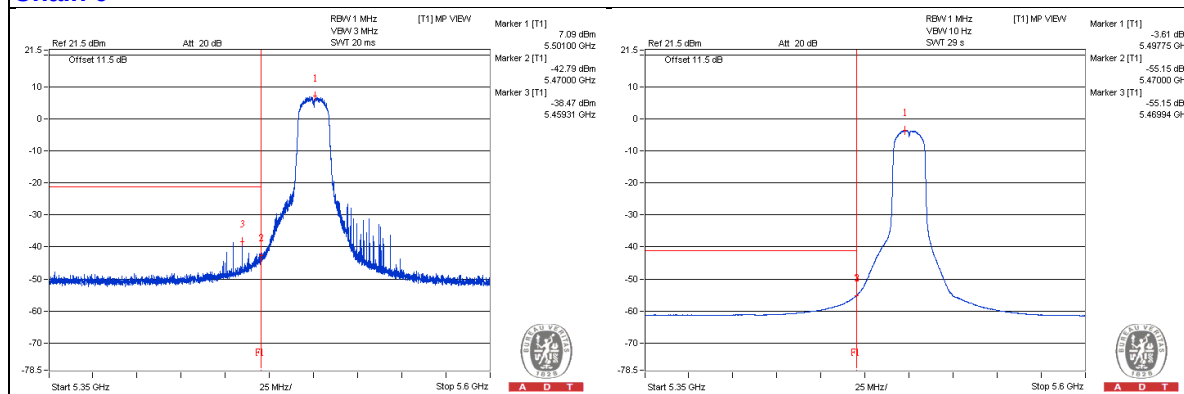
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5468.9375 PK    | 68.1                    | 74             | -5.9        | -44.29          | -35.47 | 7.77                   | -27.16           |
| 2   | 5470 AV         | 50.89                   | 54             | -3.11       | -55.15          | -55.15 | 7.77                   | -44.37           |

Note :

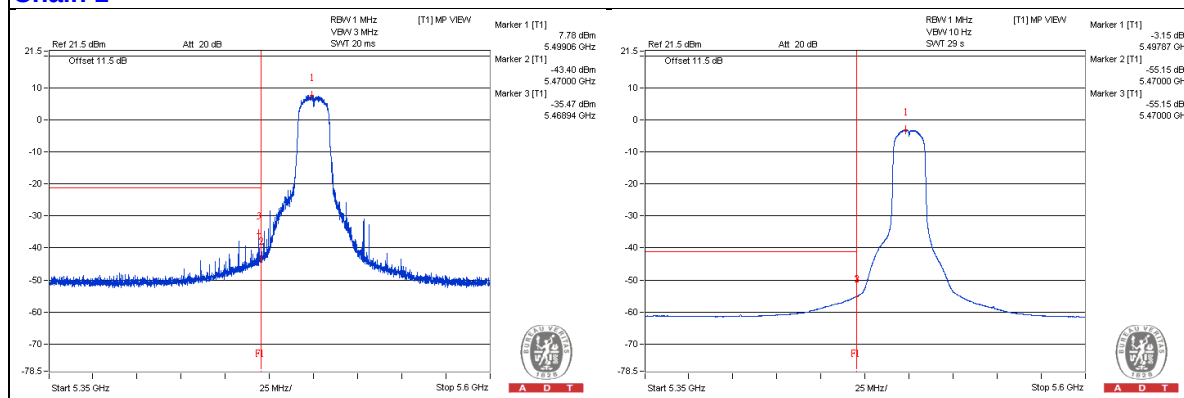
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT20) - Channel 120

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3715.625 PK     | 56.97                   | 74             | -17.03      | -49.81          | -48.44 | 7.77                   | -38.29           |
| 2   | 3731.25 AV      | 39.19                   | 54             | -14.81      | -69.09          | -65.38 | 7.77                   | -56.07           |
| 3   | 7478.125 PK     | 56.3                    | 74             | -17.7       | -49.91          | -49.58 | 7.77                   | -38.96           |
| 4   | 7465.625 AV     | 37.22                   | 54             | -16.78      | -67.46          | -70.82 | 7.77                   | -58.04           |
| 5   | 11196.875 PK    | 59.07                   | 74             | -14.93      | -50.91          | -44.94 | 7.77                   | -36.19           |
| 6   | 11200 AV        | 47.56                   | 54             | -6.44       | -66.81          | -55.8  | 7.77                   | -47.7            |
| 7   | 16812 PK        | 55.17                   | 74             | -18.83      | -50.98          | -50.77 | 7.77                   | -40.09           |
| 8   | 16817.75 AV     | 44.11                   | 54             | -9.89       | -61.91          | -61.96 | 7.77                   | -51.15           |

Note :

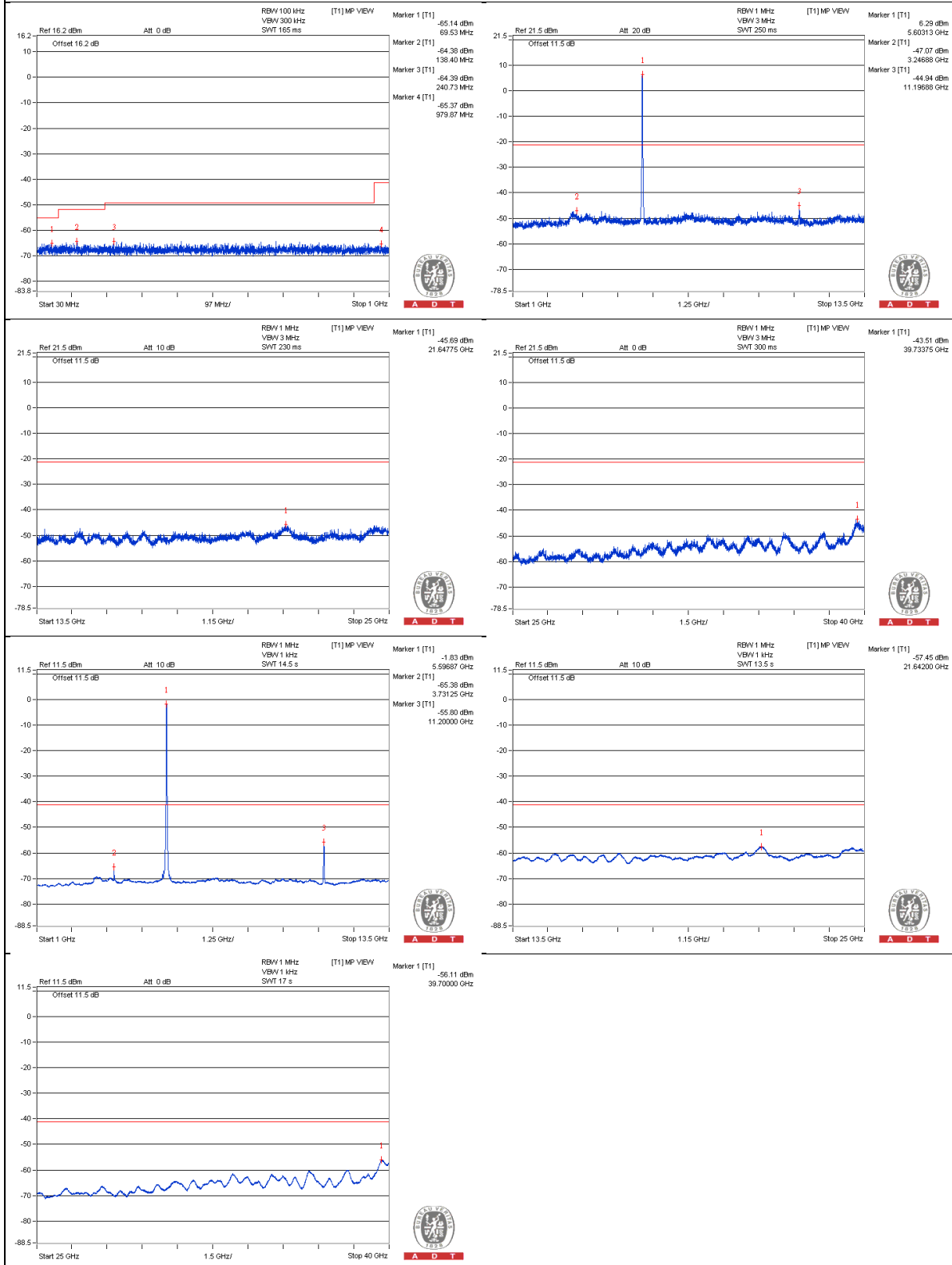
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT20) - Channel 140

### Conducted spurious emission table

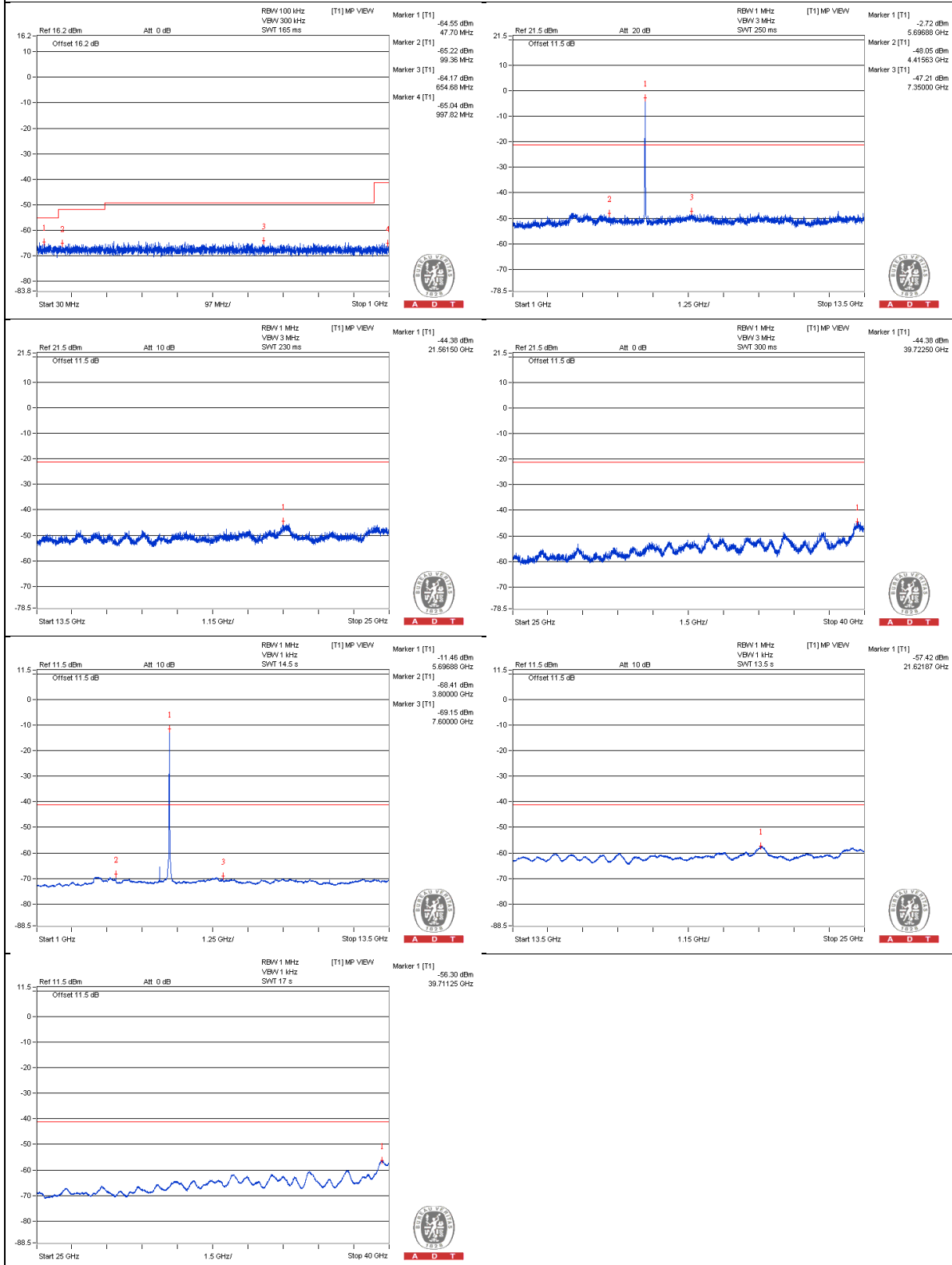
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3787.5 PK       | 55.88                   | 74             | -18.12      | -50.34          | -49.99 | 7.77                   | -39.38           |
| 2   | 3800 AV         | 43.34                   | 54             | -10.66      | -68.41          | -60.32 | 7.77                   | -51.92           |
| 3   | 7587.5 PK       | 56.56                   | 74             | -17.44      | -50.14          | -48.91 | 7.77                   | -38.7            |
| 4   | 7600 AV         | 36.4                    | 54             | -17.6       | -69.15          | -70.2  | 7.77                   | -58.86           |
| 5   | 11393.75 PK     | 55.25                   | 74             | -18.75      | -51.17          | -50.45 | 7.77                   | -40.01           |
| 6   | 11396.875 AV    | 38.59                   | 54             | -15.41      | -71.25          | -65.45 | 7.77                   | -56.67           |
| 7   | 17113.875 PK    | 56.35                   | 74             | -17.65      | -49.59          | -49.79 | 7.77                   | -38.91           |
| 8   | 17082.25 AV     | 44.55                   | 54             | -9.45       | -61.44          | -61.54 | 7.77                   | -50.71           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

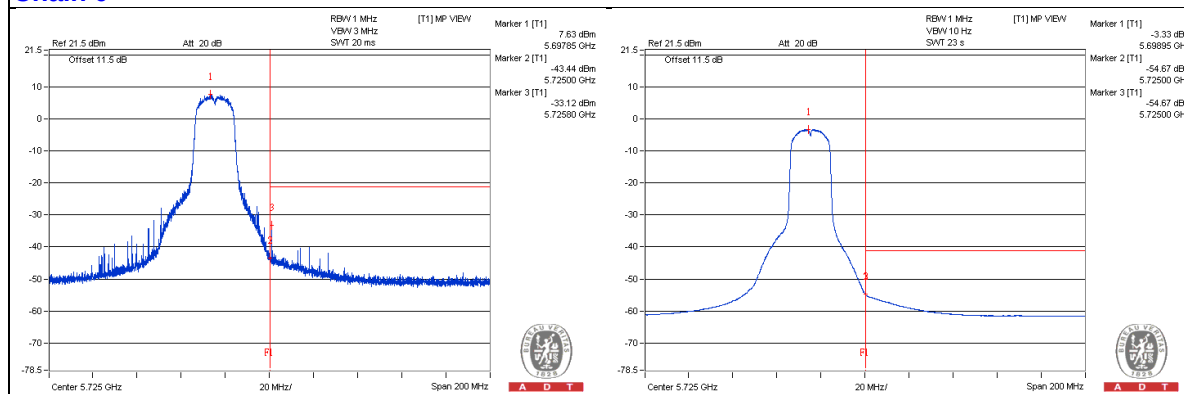
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5725.8 PK       | 70.8                    | 74             | -3.2        | -33.12          | -39.54 | 7.77                   | -24.46           |
| 2   | 5725 AV         | 52.23                   | 54             | -1.77       | -54.67          | -53.1  | 7.77                   | -43.03           |

Note :

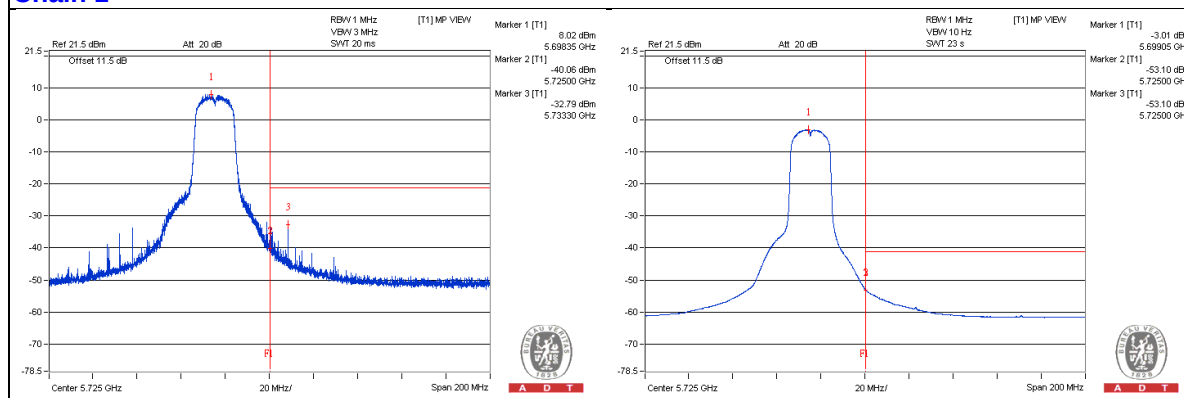
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT20) - Channel 144

### Conducted spurious emission table

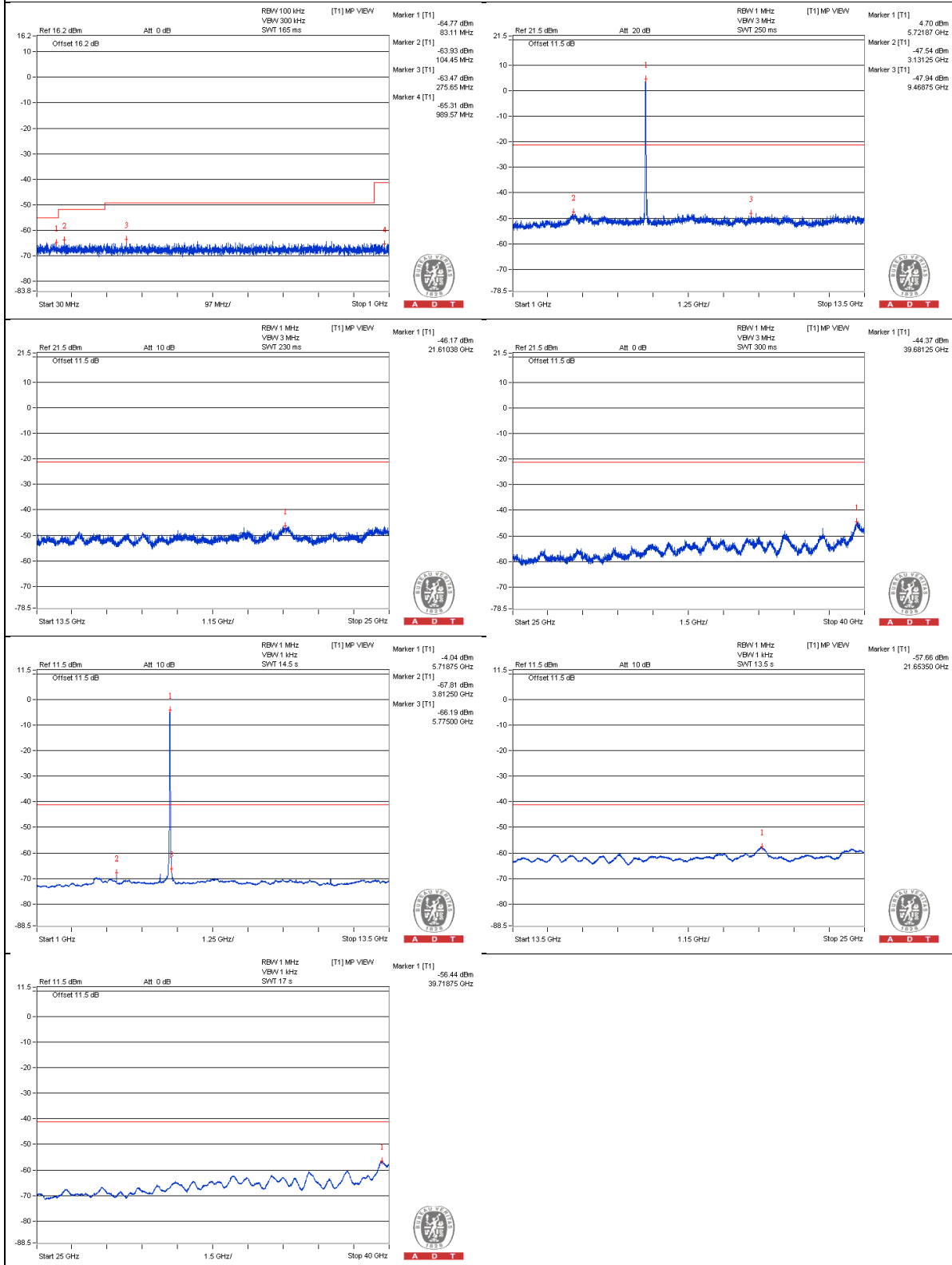
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3812.5 PK       | 56.22                   | 74             | -17.78      | -50.11          | -49.55 | 7.77                   | -39.04           |
| 2   | 3812.5 AV       | 42.02                   | 54             | -11.98      | -67.81          | -62.03 | 7.77                   | -53.24           |
| 3   | 7621.875 PK     | 56.07                   | 74             | -17.93      | -49.93          | -50.02 | 7.77                   | -39.19           |
| 4   | 7609.375 AV     | 34.86                   | 54             | -19.14      | -71.2           | -71.17 | 7.77                   | -60.4            |
| 5   | 11440.625 PK    | 56.47                   | 74             | -17.53      | -50.9           | -48.55 | 7.77                   | -38.79           |
| 6   | 11443.75 AV     | 40.06                   | 54             | -13.94      | -70.22          | -63.88 | 7.77                   | -55.2            |
| 7   | 17145.5 PK      | 54.71                   | 74             | -19.29      | -50.21          | -52.84 | 7.77                   | -40.55           |
| 8   | 17148.375 AV    | 43.2                    | 54             | -10.8       | -62.81          | -62.88 | 7.77                   | -52.06           |

Note :

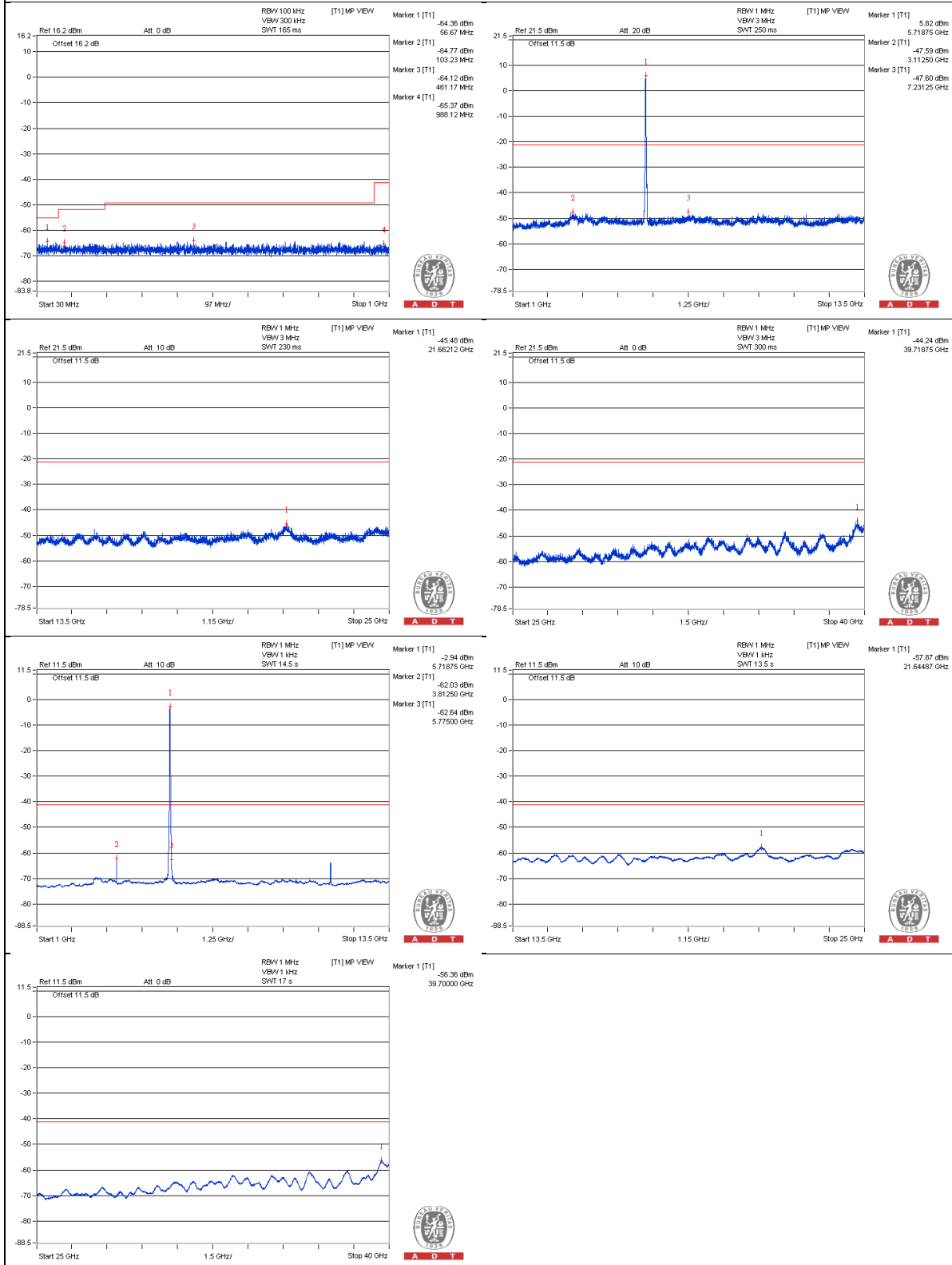
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

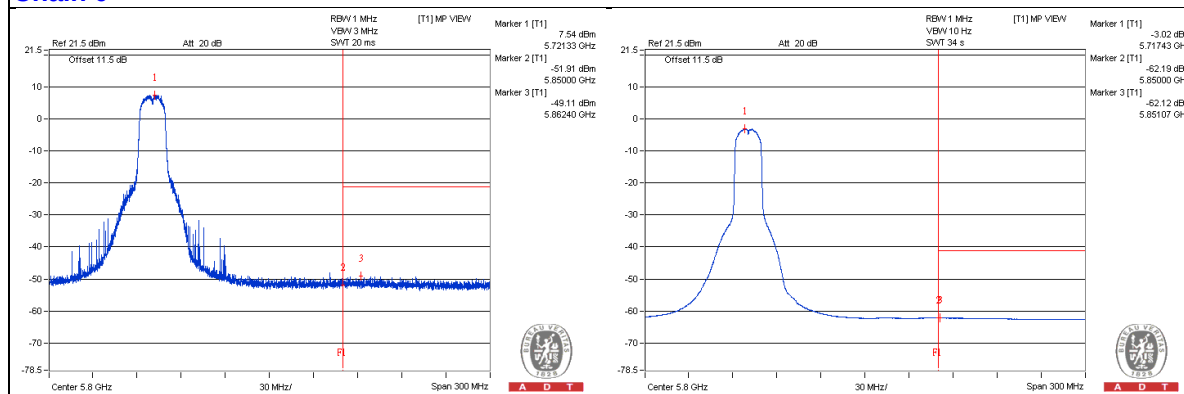
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5840.95 PK      | 56.32                   | 74             | -17.68      | -48.19          | -52.12 | 7.77                   | -38.94           |
| 2   | 5850.4 AV       | 43.88                   | 54             | -10.12      | -62.14          | -62.19 | 7.77                   | -51.38           |

Note :

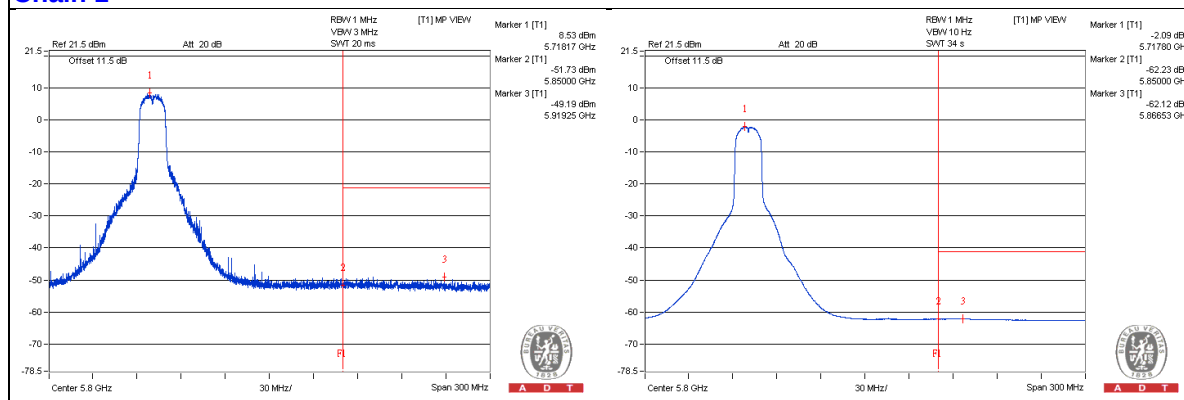
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT40) - Channel 38

### Conducted spurious emission table

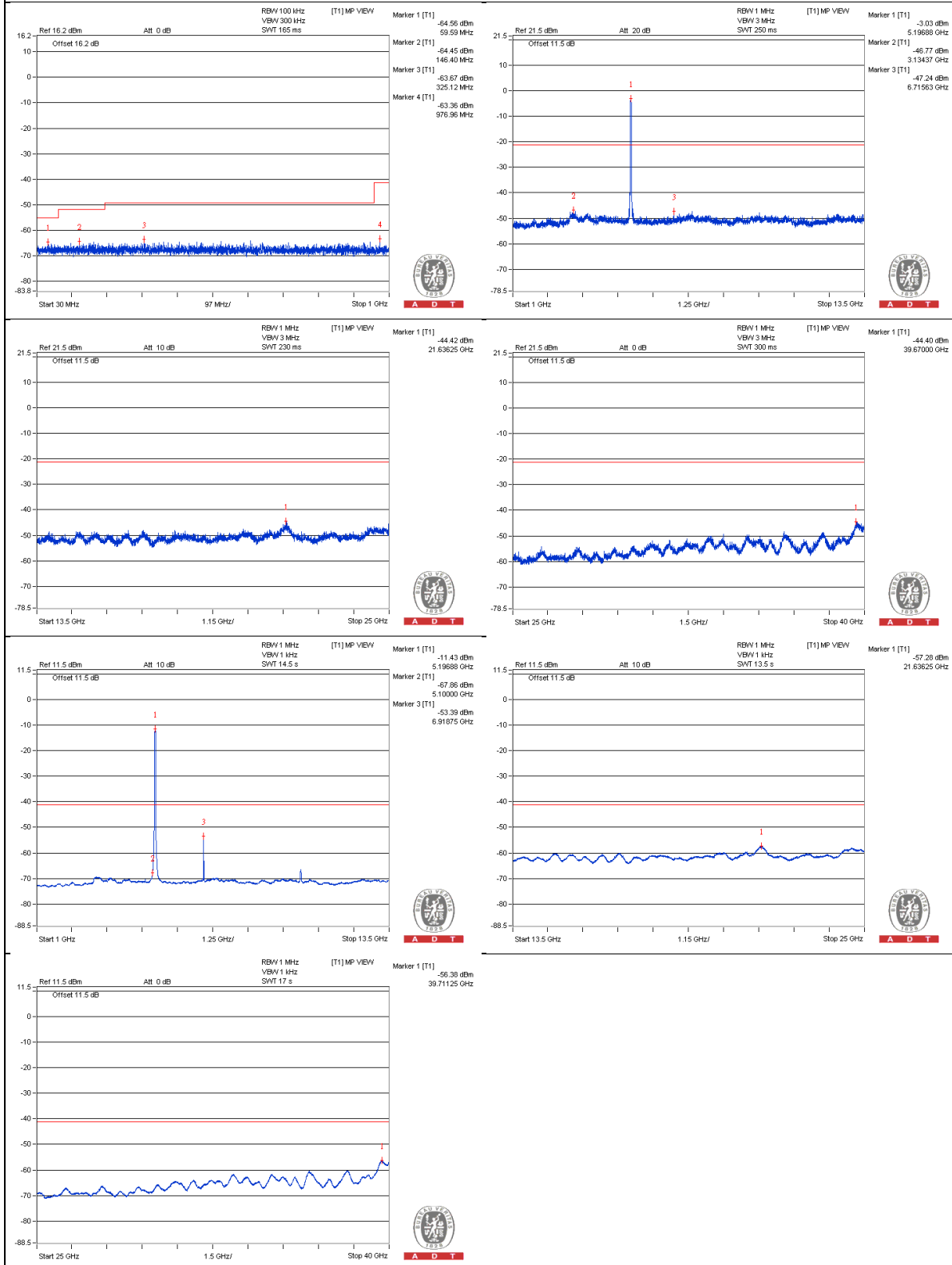
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3456.25 PK      | 54.96                   | 74             | -19.04      | -50.81          | -48.33 | 6.09                   | -40.3            |
| 2   | 3459.375 AV     | 34.01                   | 54             | -19.99      | -70.61          | -70.1  | 6.09                   | -61.25           |
| 3   | 6921.875 PK     | 55.18                   | 74             | -18.82      | -48.44          | -50.08 | 6.09                   | -40.08           |
| 4   | 6918.75 AV      | 48.73                   | 54             | -5.27       | -53.39          | -60.52 | 6.09                   | -46.53           |
| 5   | 10365.625 PK    | 55.44                   | 74             | -18.56      | -49.1           | -48.75 | 6.09                   | -39.82           |
| 6   | 10371.875 AV    | 38.08                   | 54             | -15.92      | -66.94          | -65.71 | 6.09                   | -57.18           |
| 7   | 15552.75 PK     | 53.17                   | 74             | -20.83      | -51.16          | -51.23 | 6.09                   | -42.09           |
| 8   | 15555.625 AV    | 42.22                   | 54             | -11.78      | -62.2           | -62.08 | 6.09                   | -53.04           |

Note :

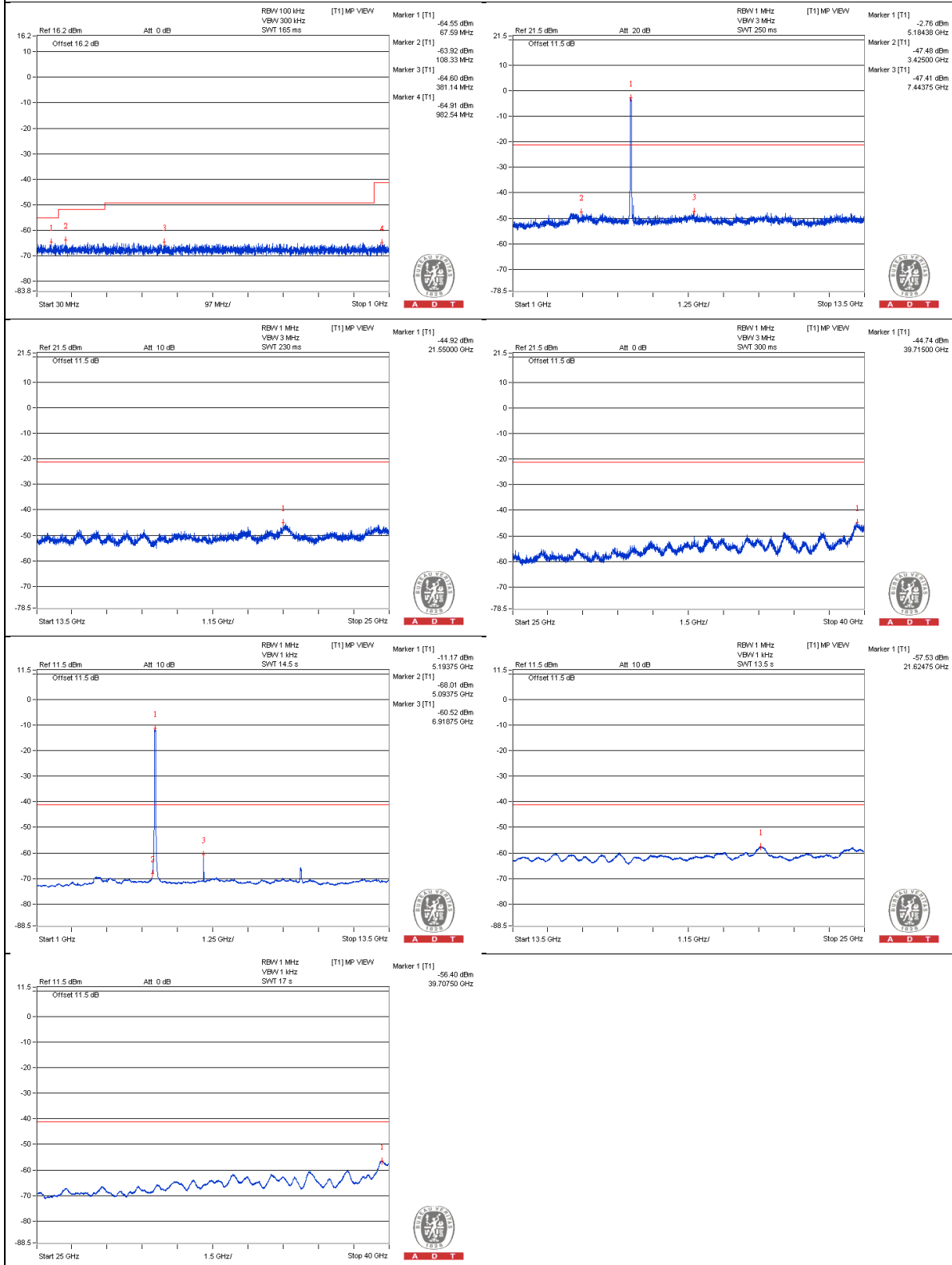
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

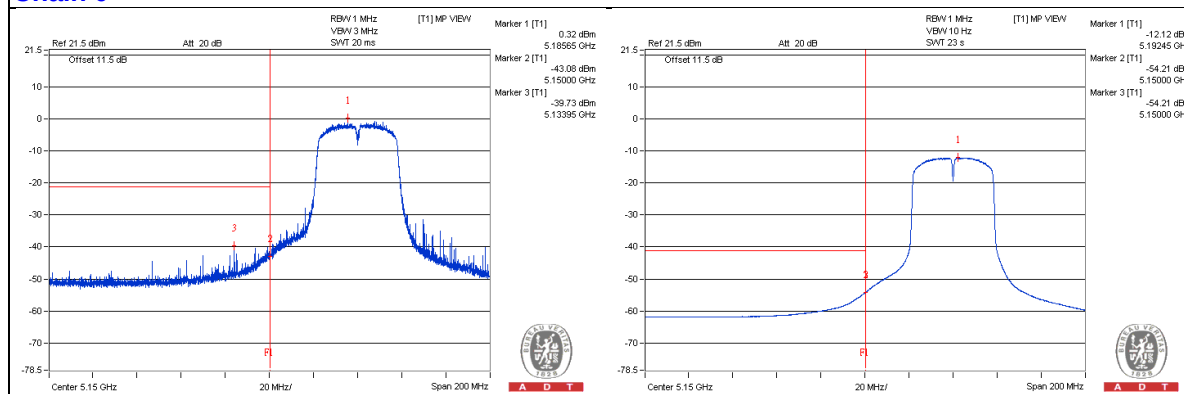
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5140.45 PK      | 64.17                   | 74             | -9.83       | -47.36          | -37.62 | 6.09                   | -31.09           |
| 2   | 5150 AV         | 50.12                   | 54             | -3.88       | -54.21          | -54.27 | 6.09                   | -45.14           |

Note :

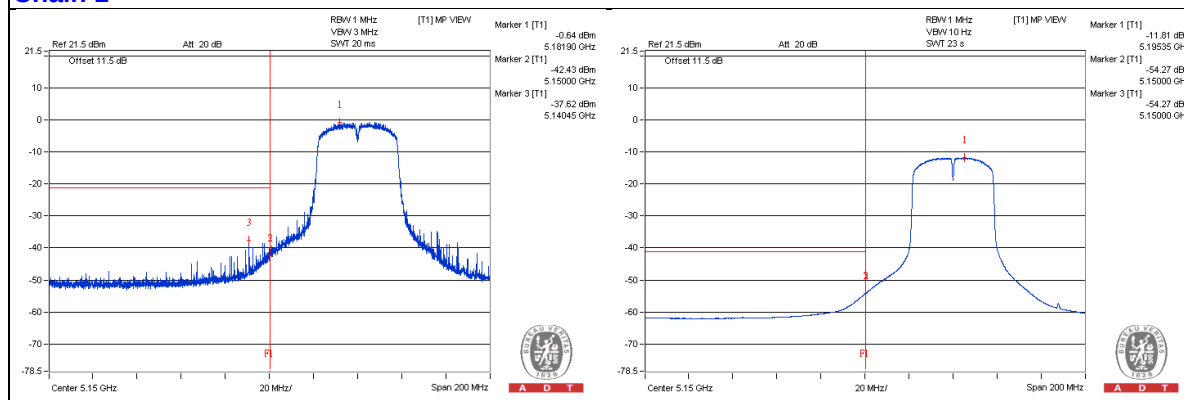
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT40) - Channel 46

### Conducted spurious emission table

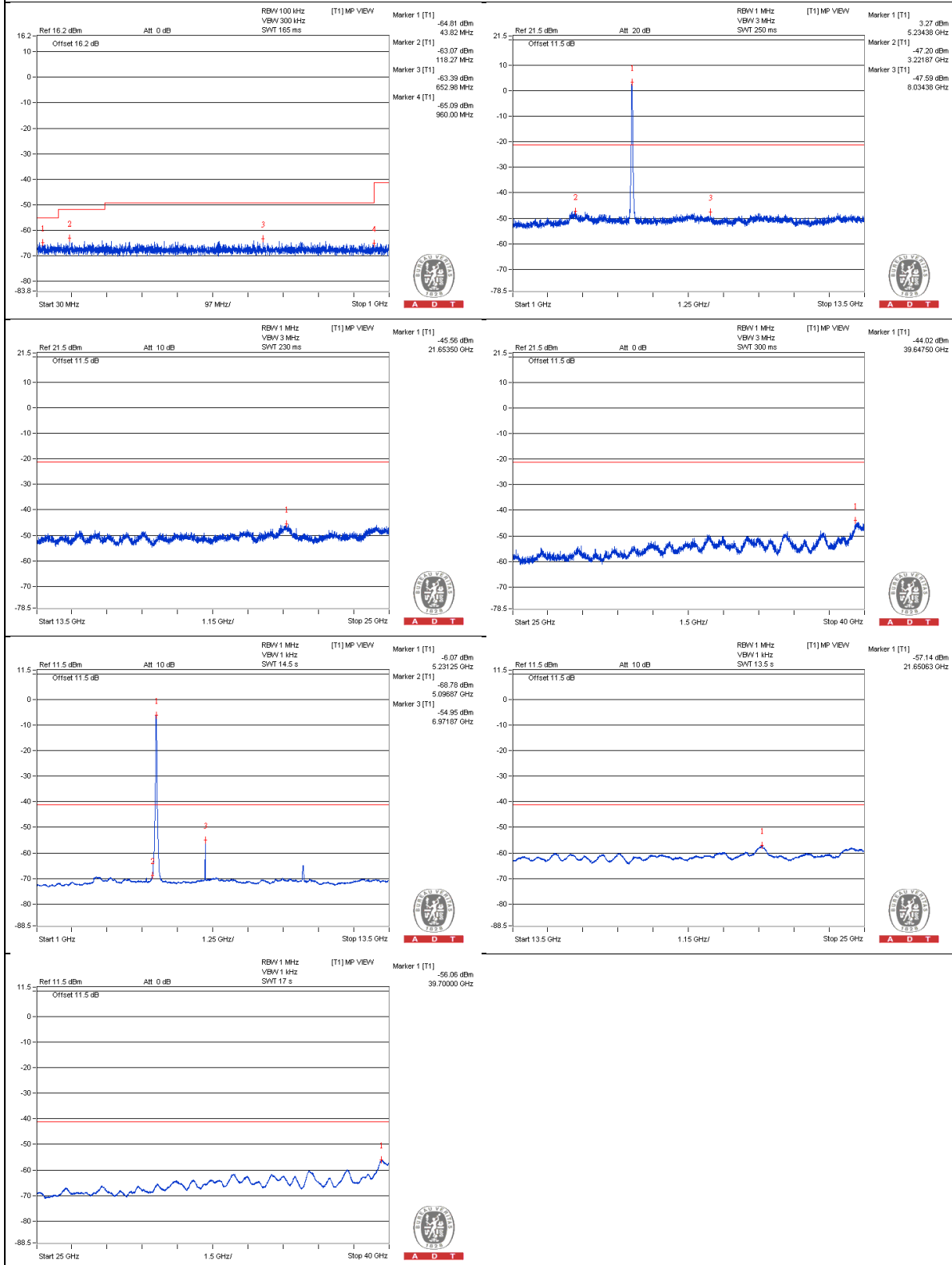
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3478.125 PK     | 54.25                   | 74             | -19.75      | -49.33          | -51.06 | 6.09                   | -41.01           |
| 2   | 3484.375 AV     | 33.92                   | 54             | -20.08      | -70.78          | -70.12 | 6.09                   | -61.34           |
| 3   | 6956.25 PK      | 55.12                   | 74             | -18.88      | -49.5           | -48.99 | 6.09                   | -40.14           |
| 4   | 6971.875 AV     | 46.88                   | 54             | -7.12       | -54.95          | -64.26 | 6.09                   | -48.38           |
| 5   | 10453.125 PK    | 55.83                   | 74             | -18.17      | -48.68          | -48.38 | 6.09                   | -39.43           |
| 6   | 10456.25 AV     | 43.4                    | 54             | -10.6       | -65.25          | -58.85 | 6.09                   | -51.86           |
| 7   | 15693.625 PK    | 54.11                   | 74             | -19.89      | -50.22          | -50.29 | 6.09                   | -41.15           |
| 8   | 15687.875 AV    | 41.84                   | 54             | -12.16      | -62.43          | -62.61 | 6.09                   | -53.42           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT40) - Channel 54

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3528.125 PK     | 54.92                   | 74             | -19.08      | -49.83          | -49.09 | 6.09                   | -40.34           |
| 2   | 3512.5 AV       | 35.1                    | 54             | -18.9       | -69.44          | -69.09 | 6.09                   | -60.16           |
| 3   | 7018.75 PK      | 54.96                   | 74             | -19.04      | -49.13          | -49.68 | 6.09                   | -40.3            |
| 4   | 7028.125 AV     | 43.13                   | 54             | -10.87      | -58.68          | -68.21 | 6.09                   | -52.13           |
| 5   | 10528.125 PK    | 56.89                   | 74             | -17.11      | -49.95          | -45.9  | 6.09                   | -38.37           |
| 6   | 10546.875 AV    | 42.93                   | 54             | -11.07      | -65.43          | -59.39 | 6.09                   | -52.33           |
| 7   | 15808.625 PK    | 53.94                   | 74             | -20.06      | -51.1           | -49.83 | 6.09                   | -41.32           |
| 8   | 15800 AV        | 43.08                   | 54             | -10.92      | -61.25          | -61.32 | 6.09                   | -52.18           |

Note :

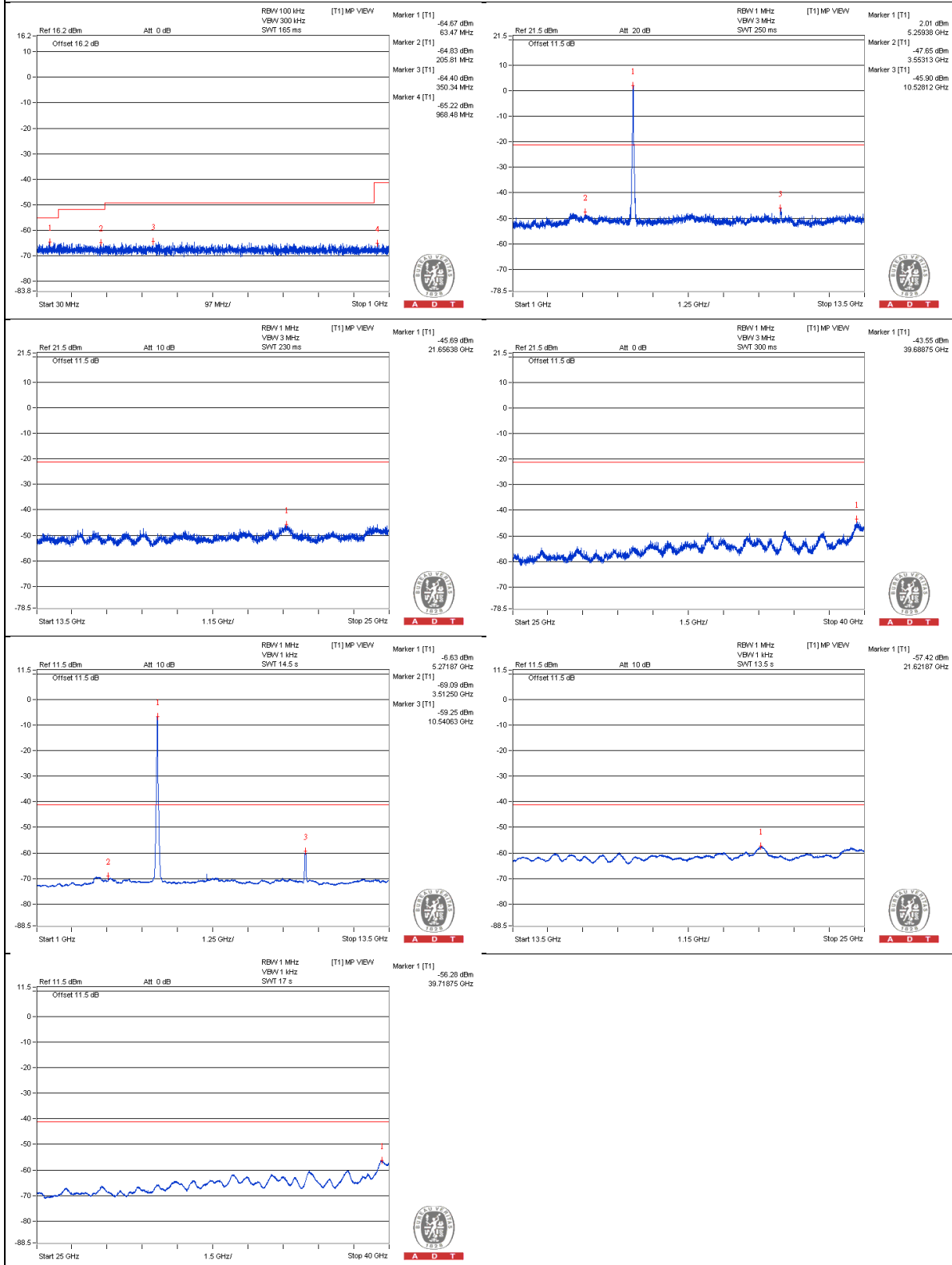
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT40) - Channel 62

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3534.375 PK     | 55.43                   | 74             | -18.57      | -47.53          | -51    | 6.09                   | -39.83           |
| 2   | 3540.625 AV     | 33.99                   | 54             | -20.01      | -70.33          | -70.42 | 6.09                   | -61.27           |
| 3   | 7084.375 PK     | 54.72                   | 74             | -19.28      | -48.97          | -50.43 | 6.09                   | -40.54           |
| 4   | 7081.25 AV      | 41.63                   | 54             | -12.37      | -60.6           | -67.08 | 6.09                   | -53.63           |
| 5   | 10609.375 PK    | 55.13                   | 74             | -18.87      | -50.98          | -47.98 | 6.09                   | -40.13           |
| 6   | 10628.125 AV    | 37.16                   | 54             | -16.84      | -70.36          | -65.39 | 6.09                   | -58.1            |
| 7   | 15932.25 PK     | 53.35                   | 74             | -20.65      | -50.53          | -51.55 | 6.09                   | -41.91           |
| 8   | 15915 AV        | 42.04                   | 54             | -11.96      | -62.4           | -62.25 | 6.09                   | -53.22           |

Note :

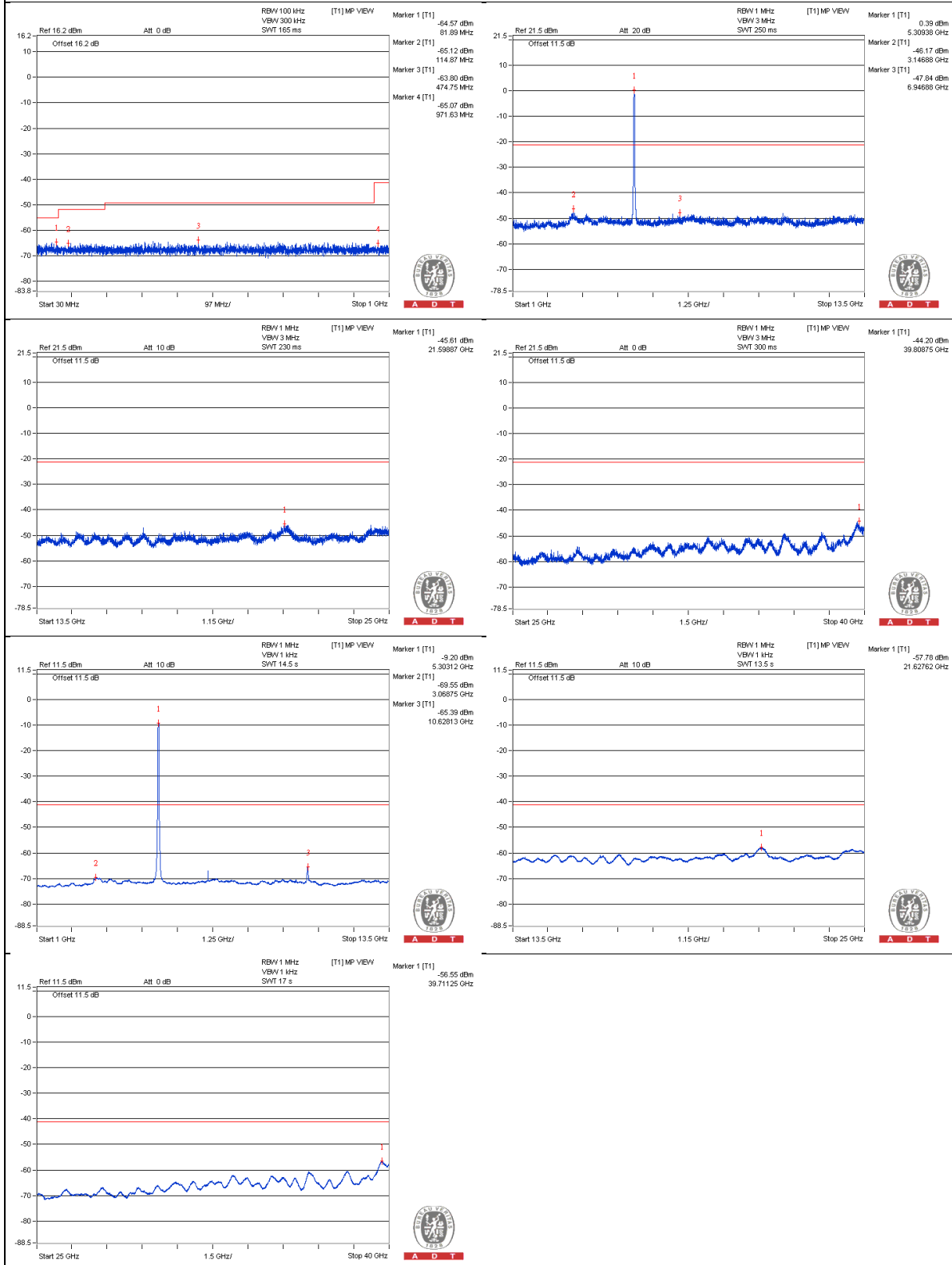
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

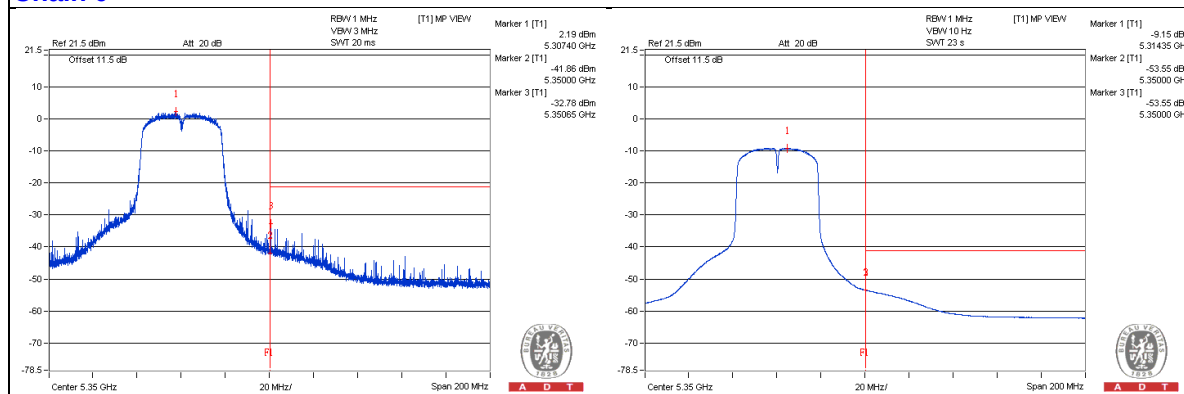
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5350.65 PK      | 68.93                   | 74             | -5.07       | -32.78          | -43.43 | 6.09                   | -26.33           |
| 2   | 5350 AV         | 50.85                   | 54             | -3.15       | -53.55          | -53.47 | 6.09                   | -44.41           |

Note :

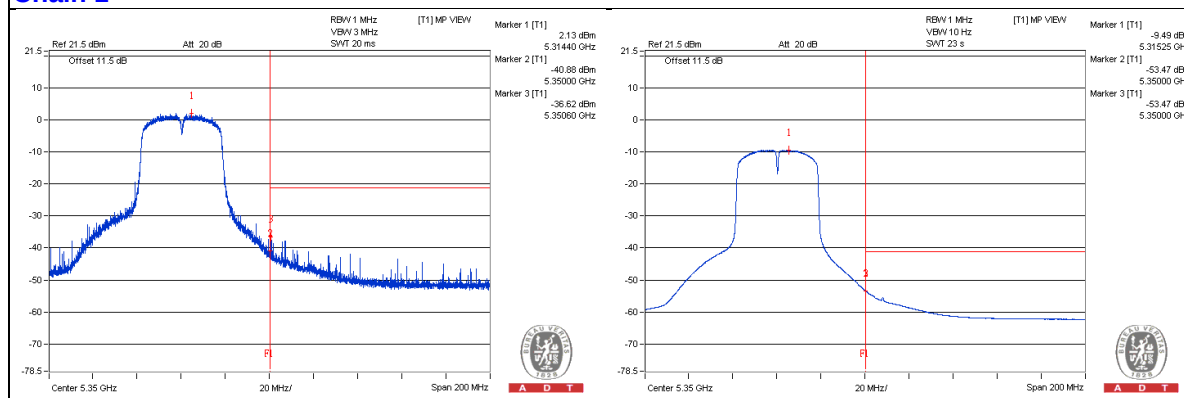
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT40) - Channel 102

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3671.875 PK     | 56.38                   | 74             | -17.62      | -49.28          | -50.07 | 7.77                   | -38.88           |
| 2   | 3671.875 AV     | 40                      | 54             | -14         | -68.25          | -64.58 | 7.77                   | -55.26           |
| 3   | 7356.25 PK      | 57.24                   | 74             | -16.76      | -48.12          | -49.6  | 7.77                   | -38.02           |
| 4   | 7346.875 AV     | 39.86                   | 54             | -14.14      | -64.37          | -69.34 | 7.77                   | -55.4            |
| 5   | 11006.25 PK     | 55                      | 74             | -19         | -50.8           | -51.29 | 7.77                   | -40.26           |
| 6   | 11028.125 AV    | 40.3                    | 54             | -13.7       | -70.35          | -63.56 | 7.77                   | -54.96           |
| 7   | 16533.125 PK    | 54.89                   | 74             | -19.11      | -51.3           | -51.01 | 7.77                   | -40.37           |
| 8   | 16510.125 AV    | 43.84                   | 54             | -10.16      | -62.07          | -62.33 | 7.77                   | -51.42           |

Note :

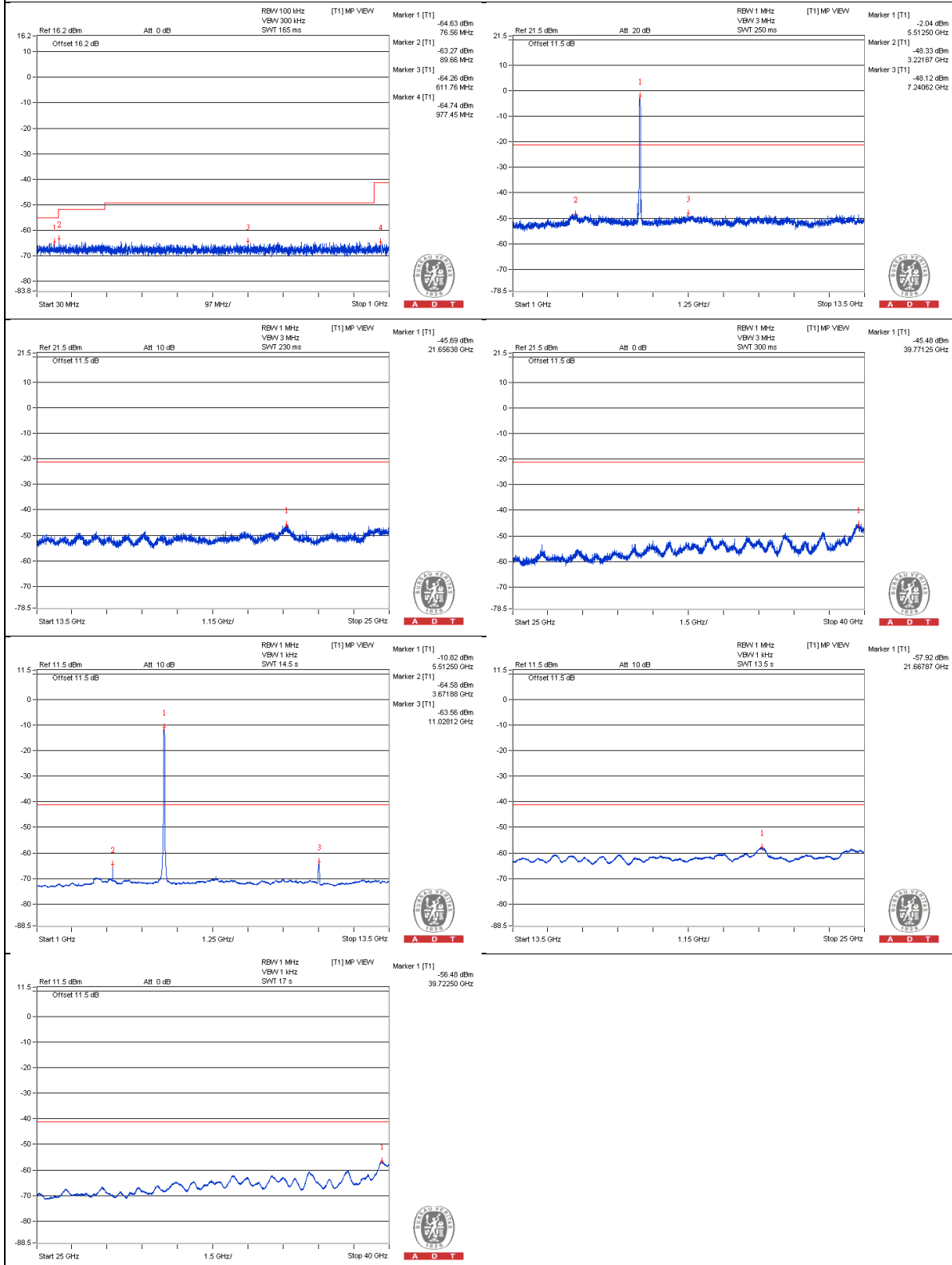
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5469.25 PK      | 69.92                   | 74             | -4.08       | -44.67          | -33.42 | 7.77                   | -25.34           |
| 2   | 5469.9375 AV    | 51.42                   | 54             | -2.58       | -55.36          | -53.98 | 7.77                   | -43.84           |

Note :

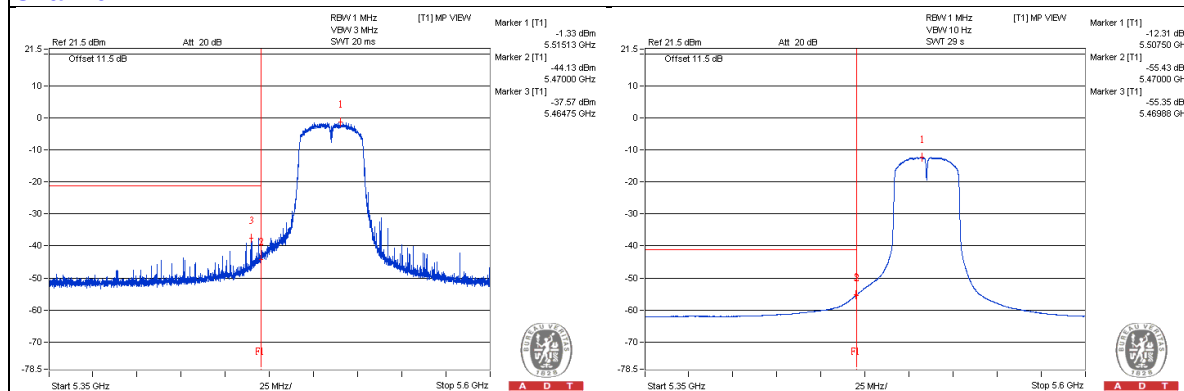
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

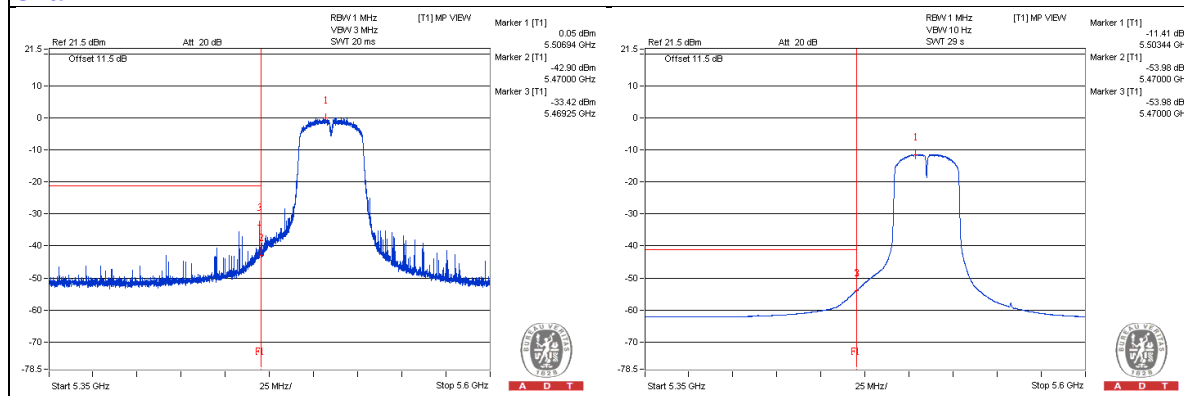
\* The unwanted emission was verified and the test result was passed by radiated measurement.

(Please refer APPENDIX A)

### Chain 0



### Chain 1



## 802.11ac (VHT40) - Channel 118

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3728.125 PK     | 56.36                   | 74             | -17.64      | -48.55          | -51.21 | 7.77                   | -38.9            |
| 2   | 3725 AV         | 39.67                   | 54             | -14.33      | -69.02          | -64.74 | 7.77                   | -55.59           |
| 3   | 7440.625 PK     | 57.4                    | 74             | -16.6       | -47.75          | -49.75 | 7.77                   | -37.86           |
| 4   | 7453.125 AV     | 37.31                   | 54             | -16.69      | -67.31          | -70.84 | 7.77                   | -57.95           |
| 5   | 11187.5 PK      | 58.66                   | 74             | -15.34      | -49.65          | -45.9  | 7.77                   | -36.6            |
| 6   | 11178.125 AV    | 45.75                   | 54             | -8.25       | -68.27          | -57.64 | 7.77                   | -49.51           |
| 7   | 16783.25 PK     | 55.27                   | 74             | -18.73      | -51             | -50.55 | 7.77                   | -39.99           |
| 8   | 16777.5 AV      | 43.89                   | 54             | -10.11      | -62.15          | -62.15 | 7.77                   | -51.37           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT40) - Channel 134

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3762.5 PK       | 56.93                   | 74             | -17.07      | -49.24          | -48.99 | 7.77                   | -38.33           |
| 2   | 3778.125 AV     | 44.34                   | 54             | -9.66       | -65.2           | -59.79 | 7.77                   | -50.92           |
| 3   | 7546.875 PK     | 56.6                    | 74             | -17.4       | -50.14          | -48.84 | 7.77                   | -38.66           |
| 4   | 7559.375 AV     | 35.86                   | 54             | -18.14      | -69.72          | -70.7  | 7.77                   | -59.4            |
| 5   | 11346.875 PK    | 57.74                   | 74             | -16.26      | -49.26          | -47.51 | 7.77                   | -37.52           |
| 6   | 11334.375 AV    | 41.63                   | 54             | -12.37      | -70.03          | -62.04 | 7.77                   | -53.63           |
| 7   | 17010.375 PK    | 57.44                   | 74             | -16.56      | -48.41          | -48.79 | 7.77                   | -37.82           |
| 8   | 16993.125 AV    | 45.85                   | 54             | -8.15       | -60.19          | -60.19 | 7.77                   | -49.41           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

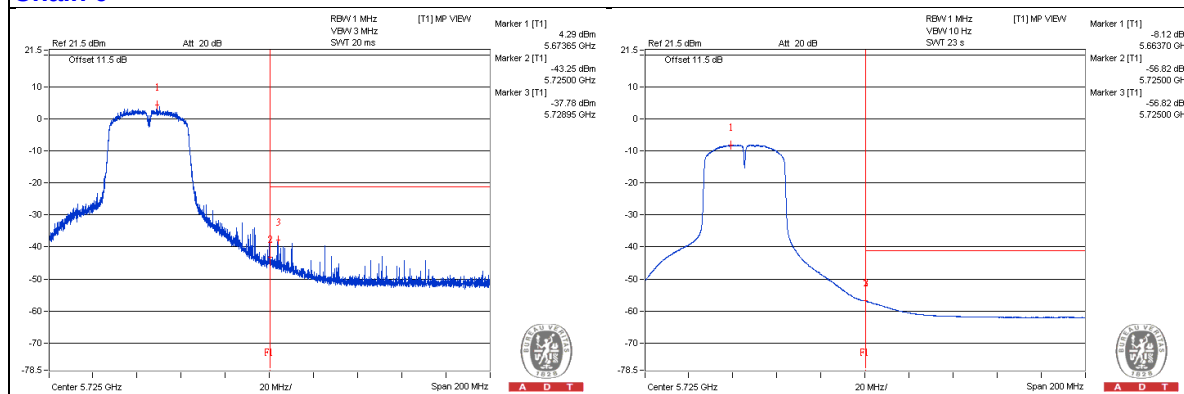
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5727.15 PK      | 68.25                   | 74             | -5.75       | -44.06          | -35.33 | 7.77                   | -27.01           |
| 2   | 5725 AV         | 50.16                   | 54             | -3.84       | -56.82          | -55.1  | 7.77                   | -45.1            |

Note :

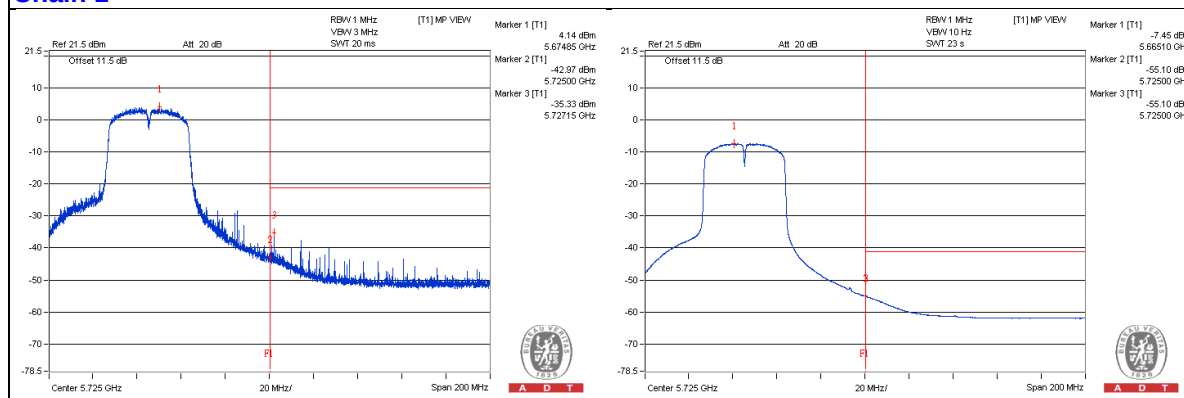
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT40) - Channel 142

### Conducted spurious emission table

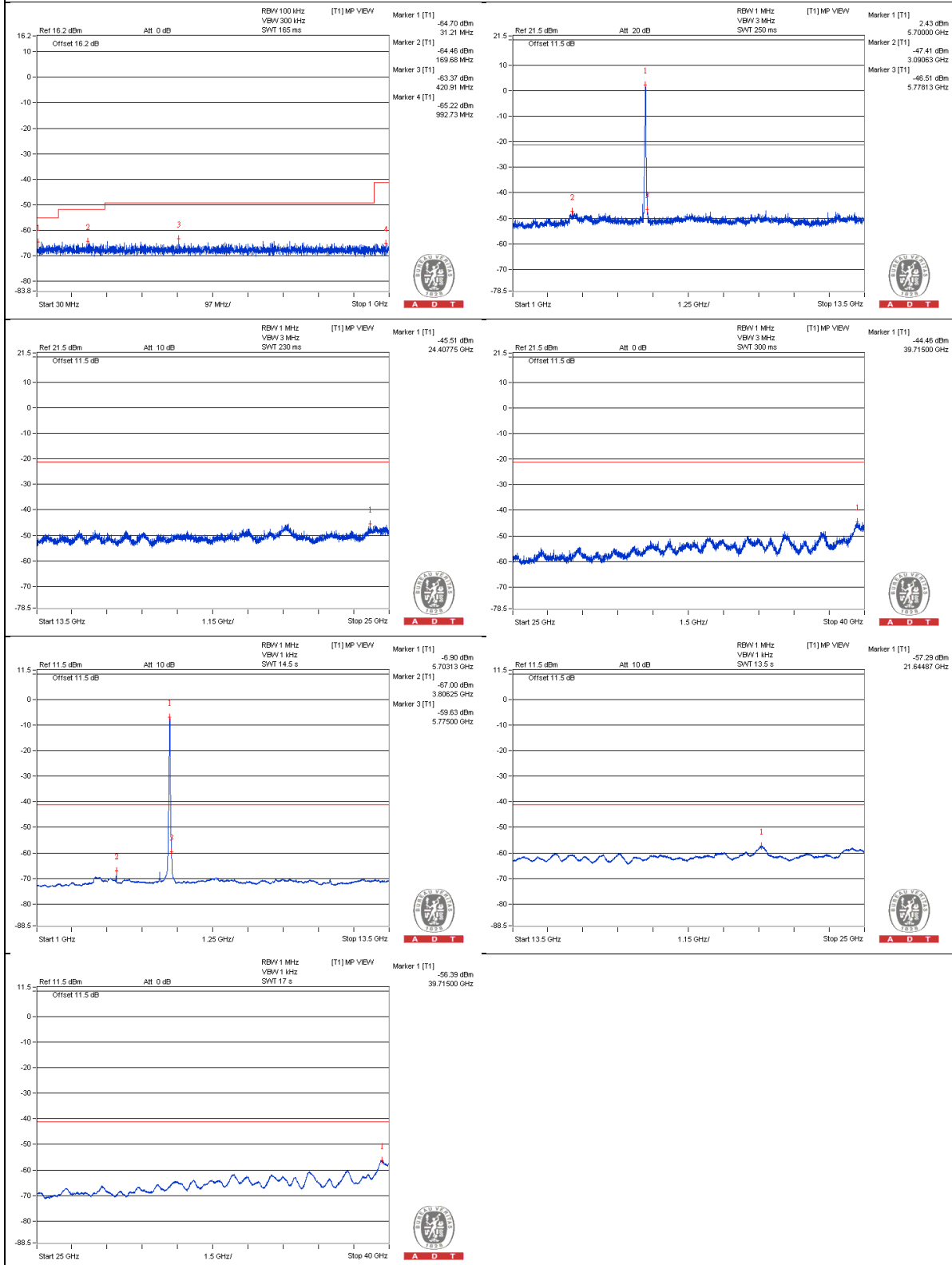
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3796.875 PK     | 55.86                   | 74             | -18.14      | -49.92          | -50.45 | 7.77                   | -39.4            |
| 2   | 3806.25 AV      | 43.08                   | 54             | -10.92      | -67             | -60.91 | 7.77                   | -52.18           |
| 3   | 7603.125 PK     | 56.91                   | 74             | -17.09      | -48.79          | -49.5  | 7.77                   | -38.35           |
| 4   | 7612.5 AV       | 35.39                   | 54             | -18.61      | -70.61          | -70.69 | 7.77                   | -59.87           |
| 5   | 11403.125 PK    | 56.72                   | 74             | -17.28      | -50.26          | -48.54 | 7.77                   | -38.54           |
| 6   | 11425 AV        | 40.81                   | 54             | -13.19      | -70.49          | -62.92 | 7.77                   | -54.45           |
| 7   | 17116.75 PK     | 55.62                   | 74             | -18.38      | -50.62          | -50.22 | 7.77                   | -39.64           |
| 8   | 17116.75 AV     | 44.06                   | 54             | -9.94       | -61.9           | -62.07 | 7.77                   | -51.2            |

Note :

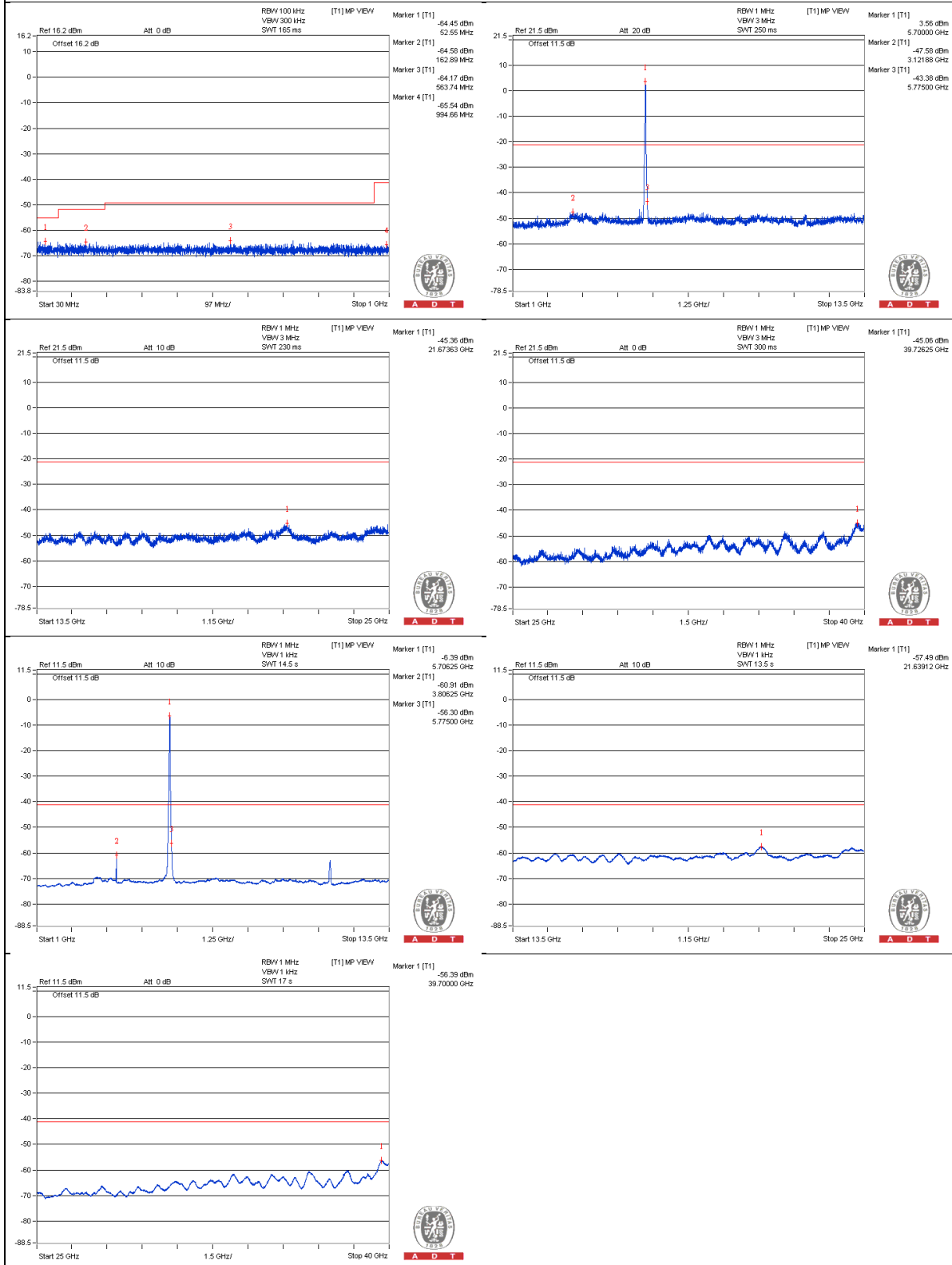
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

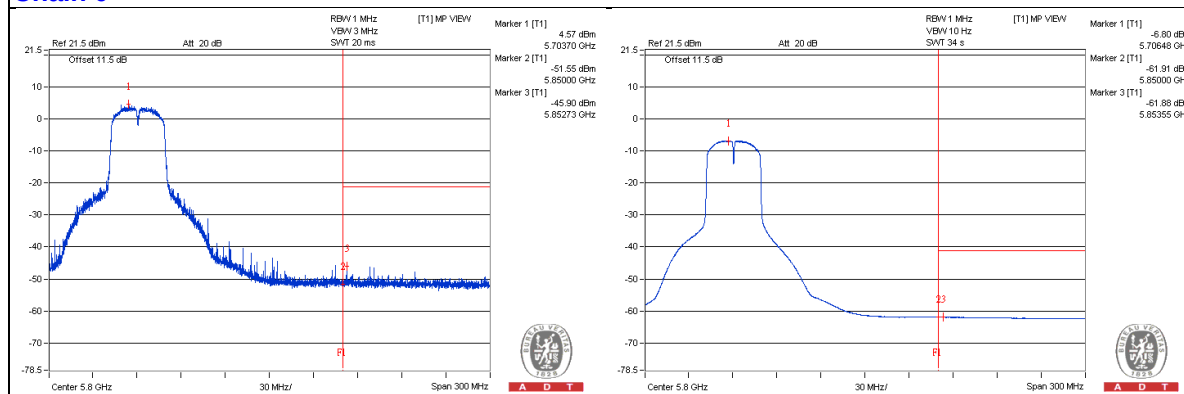
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5852.725 PK     | 58.37                   | 74             | -15.63      | -45.9           | -50.7  | 7.77                   | -36.89           |
| 2   | 5844.925 AV     | 44.19                   | 54             | -9.81       | -61.89          | -61.82 | 7.77                   | -51.07           |

Note :

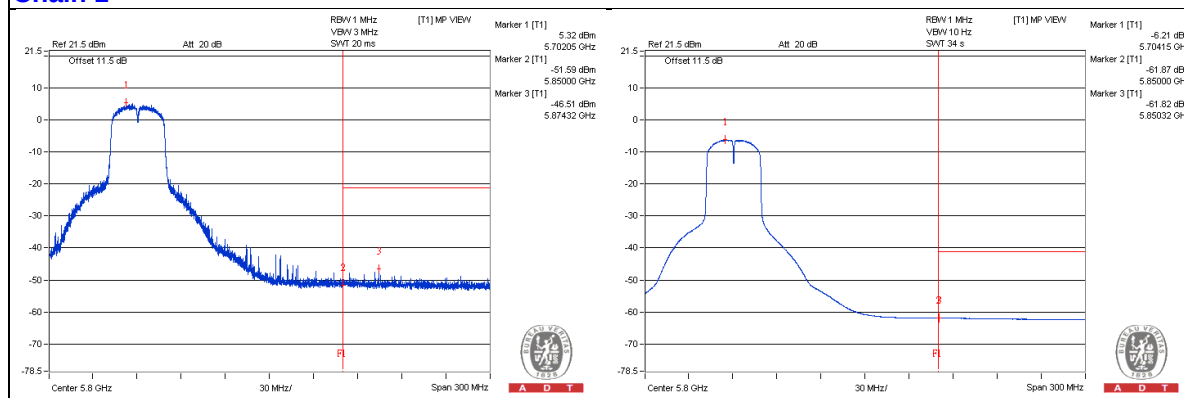
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT80) - Channel 42

### Conducted spurious emission table

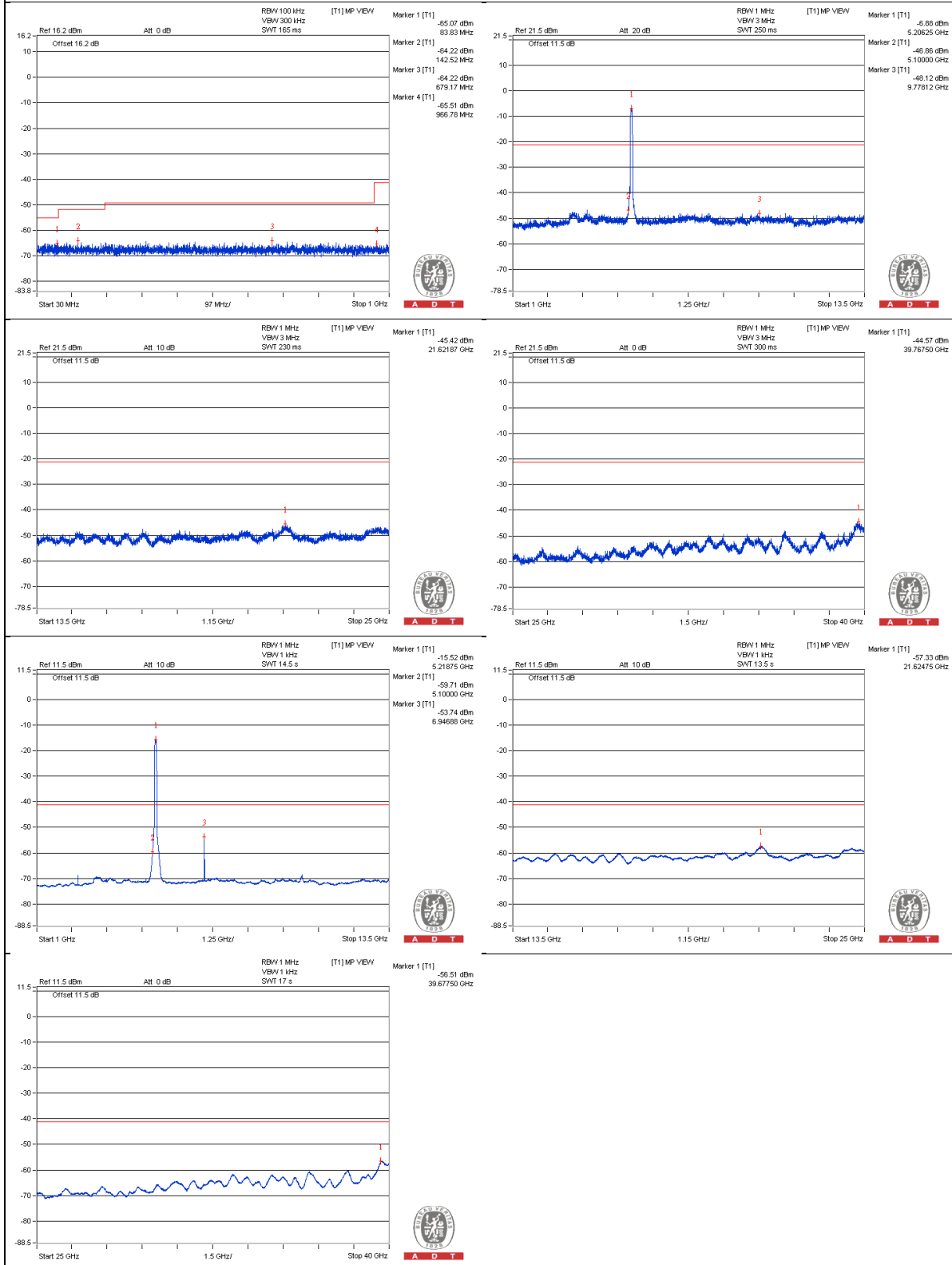
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3459.375 PK     | 54.58                   | 74             | -19.42      | -50.35          | -49.28 | 6.09                   | -40.68           |
| 2   | 3471.875 AV     | 34.49                   | 54             | -19.51      | -70.46          | -69.36 | 6.09                   | -60.77           |
| 3   | 6946.875 PK     | 55.2                    | 74             | -18.8       | -48.13          | -50.52 | 6.09                   | -40.06           |
| 4   | 6946.875 AV     | 48.2                    | 54             | -5.8        | -53.74          | -62.13 | 6.09                   | -47.06           |
| 5   | 10425 PK        | 54.33                   | 74             | -19.67      | -49.72          | -50.36 | 6.09                   | -40.93           |
| 6   | 10421.875 AV    | 36.45                   | 54             | -17.55      | -68.65          | -67.28 | 6.09                   | -58.81           |
| 7   | 15618.875 PK    | 53.19                   | 74             | -20.81      | -51.5           | -50.86 | 6.09                   | -42.07           |
| 8   | 15647.625 AV    | 41.65                   | 54             | -12.35      | -62.62          | -62.81 | 6.09                   | -53.61           |

Note :

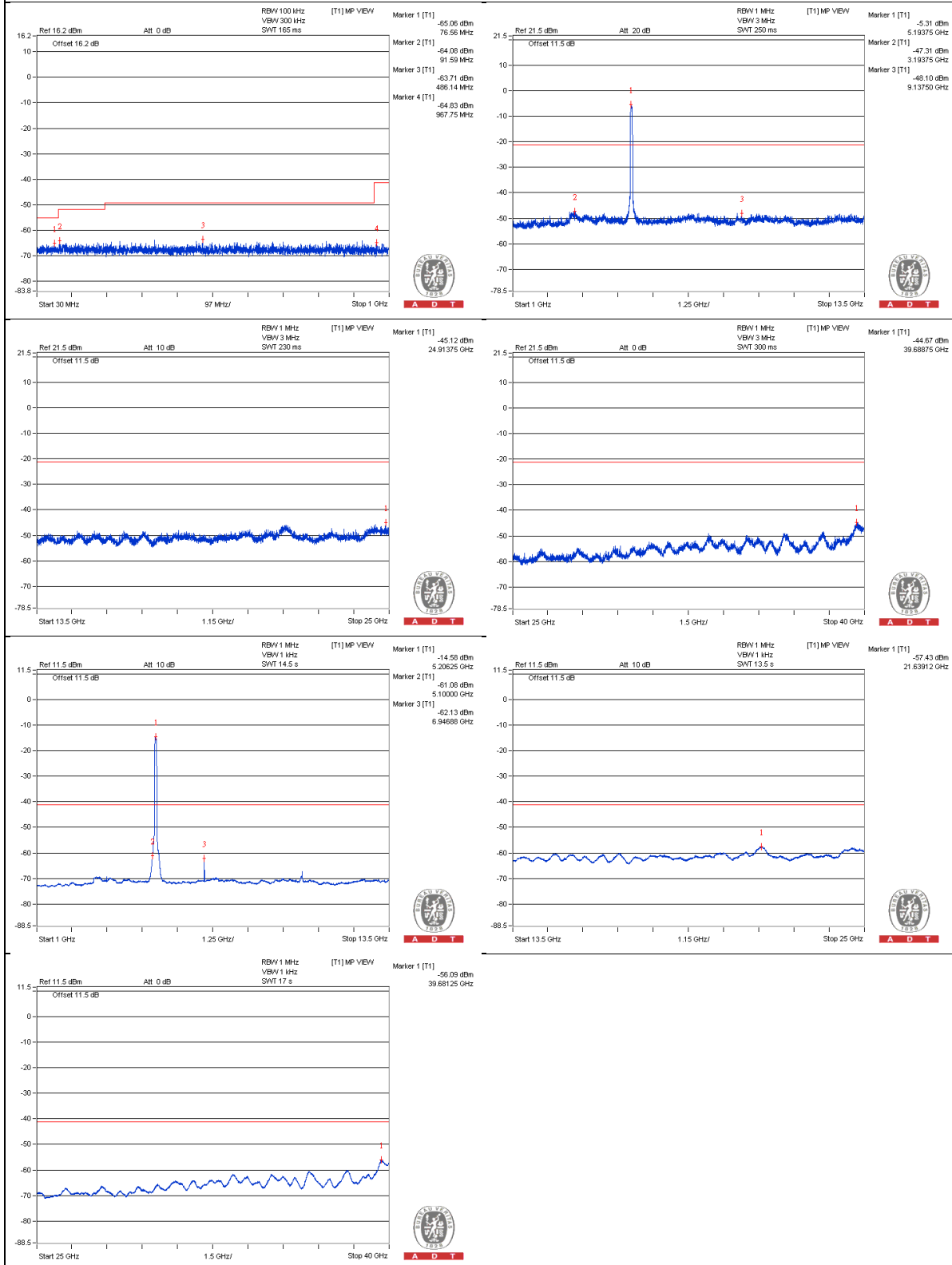
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

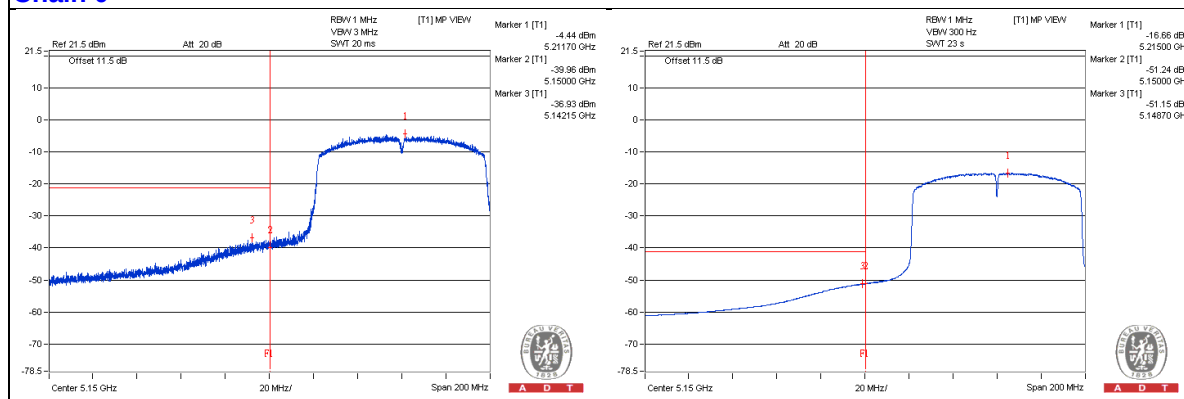
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5148.4 PK       | 66.35                   | 74             | -7.65       | -37.59          | -38.47 | 6.09                   | -28.91           |
| 2   | 5148.7 AV       | 51.92                   | 54             | -2.08       | -51.15          | -54.28 | 6.09                   | -43.34           |

Note :

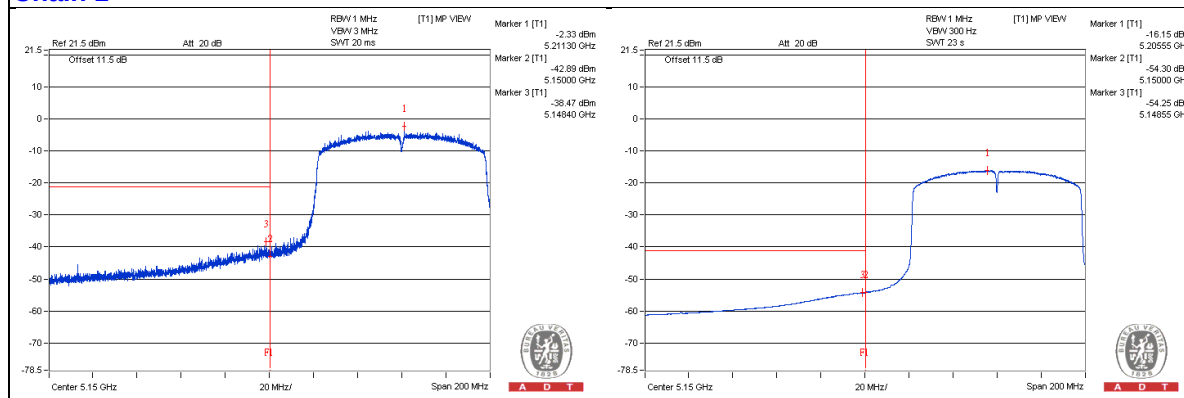
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT80) - Channel 58

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3534.375 PK     | 54.94                   | 74             | -19.06      | -49.84          | -49.04 | 6.09                   | -40.32           |
| 2   | 3525 AV         | 35.03                   | 54             | -18.97      | -70.13          | -68.65 | 6.09                   | -60.23           |
| 3   | 7043.75 PK      | 54.83                   | 74             | -19.17      | -50.58          | -48.68 | 6.09                   | -40.43           |
| 4   | 7053.125 AV     | 44.14                   | 54             | -9.86       | -57.58          | -68.15 | 6.09                   | -51.12           |
| 5   | 10584.375 PK    | 54.83                   | 74             | -19.17      | -50.65          | -48.64 | 6.09                   | -40.43           |
| 6   | 10587.5 AV      | 35.5                    | 54             | -18.5       | -70.44          | -67.7  | 6.09                   | -59.76           |
| 7   | 15851.75 PK     | 54.33                   | 74             | -19.67      | -50.23          | -49.83 | 6.09                   | -40.93           |
| 8   | 15851.75 AV     | 42.9                    | 54             | -11.1       | -61.56          | -61.37 | 6.09                   | -52.36           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

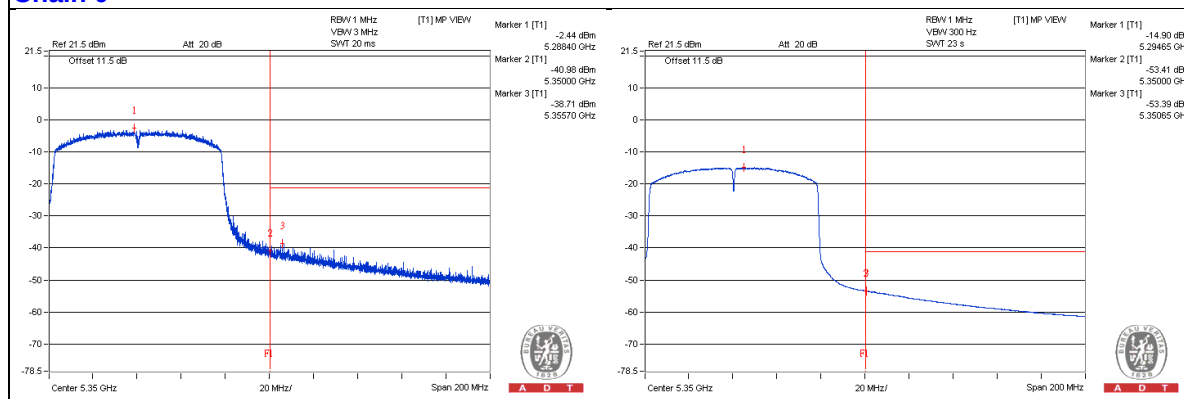
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5350.75 PK      | 67.48                   | 74             | -6.52       | -41.28          | -34.74 | 6.09                   | -27.78           |
| 2   | 5350.05 AV      | 50.8                    | 54             | -3.2        | -53.39          | -53.73 | 6.09                   | -44.46           |

Note :

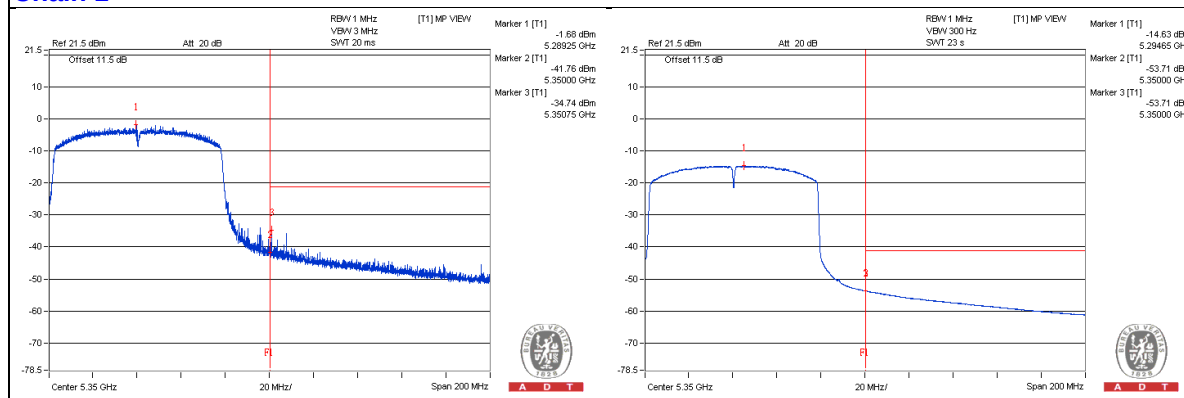
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## 802.11ac (VHT80) - Channel 106

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3703.125 PK     | 56.52                   | 74             | -17.48      | -50.38          | -48.8  | 7.77                   | -38.74           |
| 2   | 3684.375 AV     | 38.63                   | 54             | -15.37      | -69.64          | -65.95 | 7.77                   | -56.63           |
| 3   | 7362.5 PK       | 57.3                    | 74             | -16.7       | -48.01          | -49.62 | 7.77                   | -37.96           |
| 4   | 7371.875 AV     | 38.72                   | 54             | -15.28      | -65.79          | -69.69 | 7.77                   | -56.54           |
| 5   | 11065.625 PK    | 55.74                   | 74             | -18.26      | -51.31          | -49.48 | 7.77                   | -39.52           |
| 6   | 11050 AV        | 40.56                   | 54             | -13.44      | -70.51          | -63.21 | 7.77                   | -54.7            |
| 7   | 16573.375 PK    | 54.35                   | 74             | -19.65      | -52.08          | -51.34 | 7.77                   | -40.91           |
| 8   | 16570.5 AV      | 43.24                   | 54             | -10.76      | -62.83          | -62.78 | 7.77                   | -52.02           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5468.6875 PK    | 71.86                   | 74             | -2.14       | -37.11          | -32.45 | 7.77                   | -23.4            |
| 2   | 5469.875 AV     | 55.52                   | 54             | * 1.52      | -50.42          | -50.62 | 7.77                   | -39.74           |

Note :

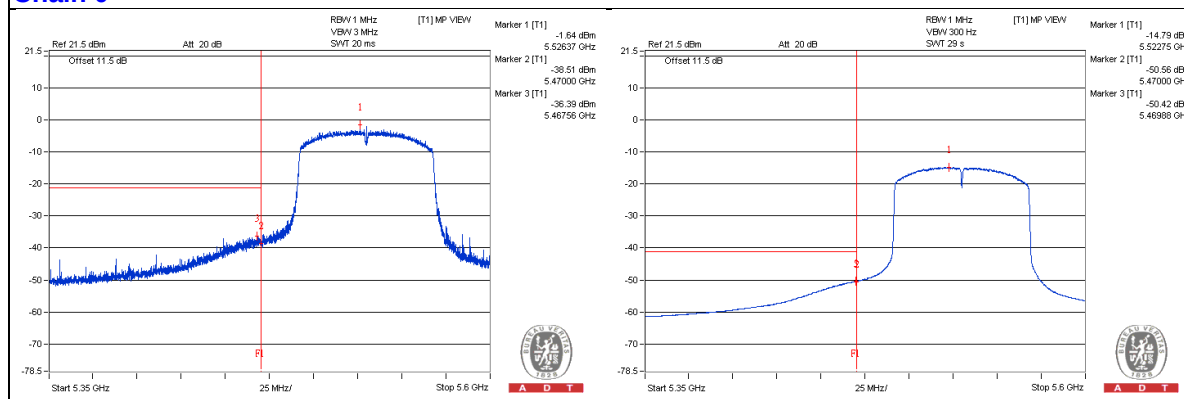
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

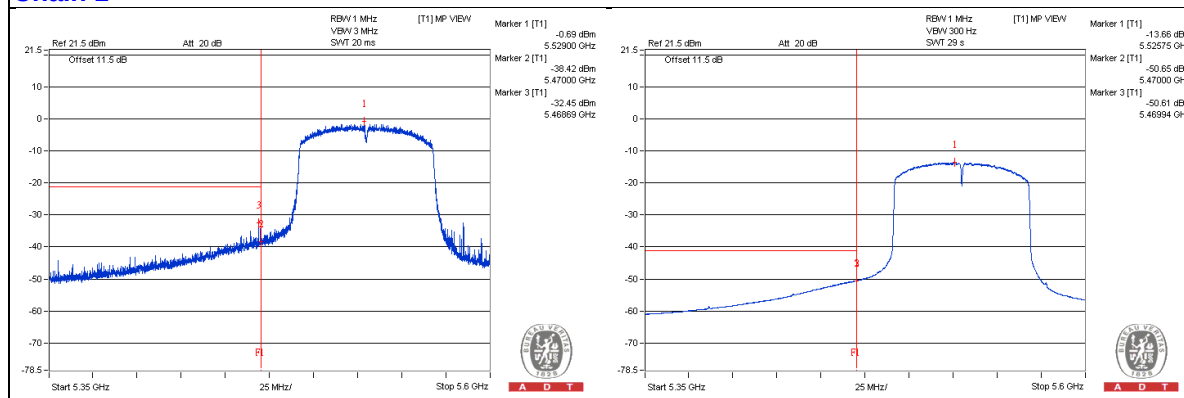
\* The unwanted emission was verified and the test result was passed by radiated measurement.

(Please refer APPENDIX A)

## Chain 0



## Chain 1



## 802.11ac (VHT80) - Channel 122

### Conducted spurious emission table

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3740.625 PK     | 56.65                   | 74             | -17.35      | -50.5           | -48.5  | 7.77                   | -38.61           |
| 2   | 3740.625 AV     | 40.49                   | 54             | -13.51      | -68.04          | -63.98 | 7.77                   | -54.77           |
| 3   | 7465.625 PK     | 56.46                   | 74             | -17.54      | -49.68          | -49.48 | 7.77                   | -38.8            |
| 4   | 7481.25 AV      | 37.02                   | 54             | -16.98      | -67.71          | -70.91 | 7.77                   | -58.24           |
| 5   | 11221.875 PK    | 56.82                   | 74             | -17.18      | -50.27          | -48.38 | 7.77                   | -38.44           |
| 6   | 11212.5 AV      | 42.05                   | 54             | -11.95      | -70.4           | -61.51 | 7.77                   | -53.21           |
| 7   | 16817.75 PK     | 56.45                   | 74             | -17.55      | -49.35          | -49.84 | 7.77                   | -38.81           |
| 8   | 16846.5 AV      | 44.5                    | 54             | -9.5        | -61.54          | -61.55 | 7.77                   | -50.76           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

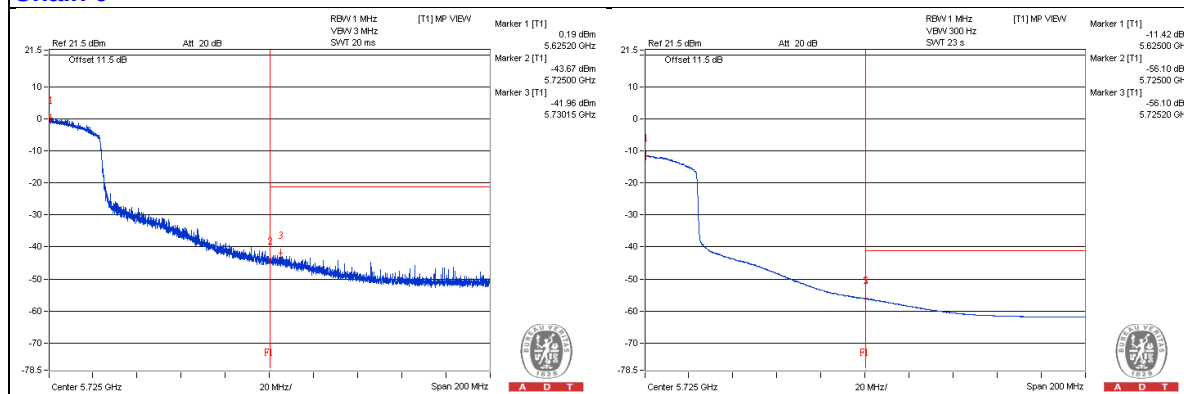
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5725.4 PK       | 65.16                   | 74             | -8.84       | -44.64          | -38.89 | 7.77                   | -30.1            |
| 2   | 5725.2 AV       | 50.86                   | 54             | -3.14       | -56.1           | -54.42 | 7.77                   | -44.4            |

Note :

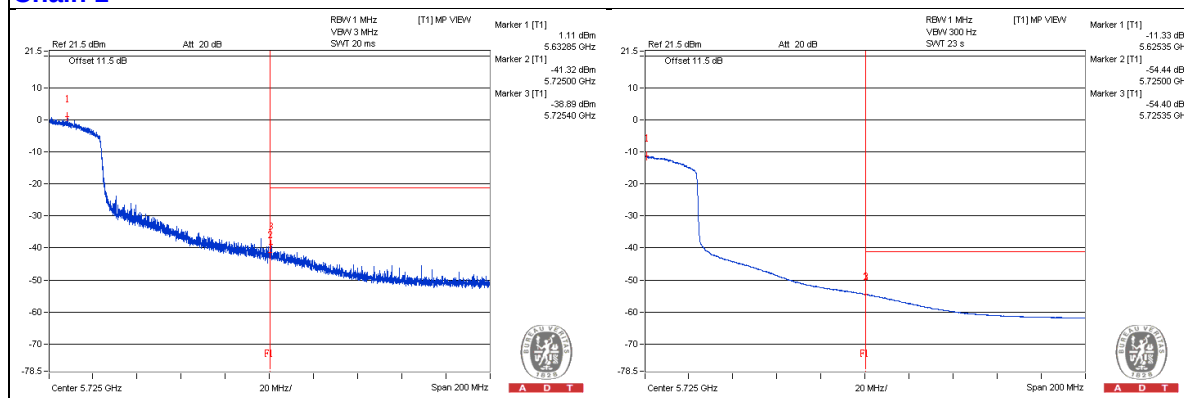
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 802.11ac (VHT80) - Channel 138

### Conducted spurious emission table

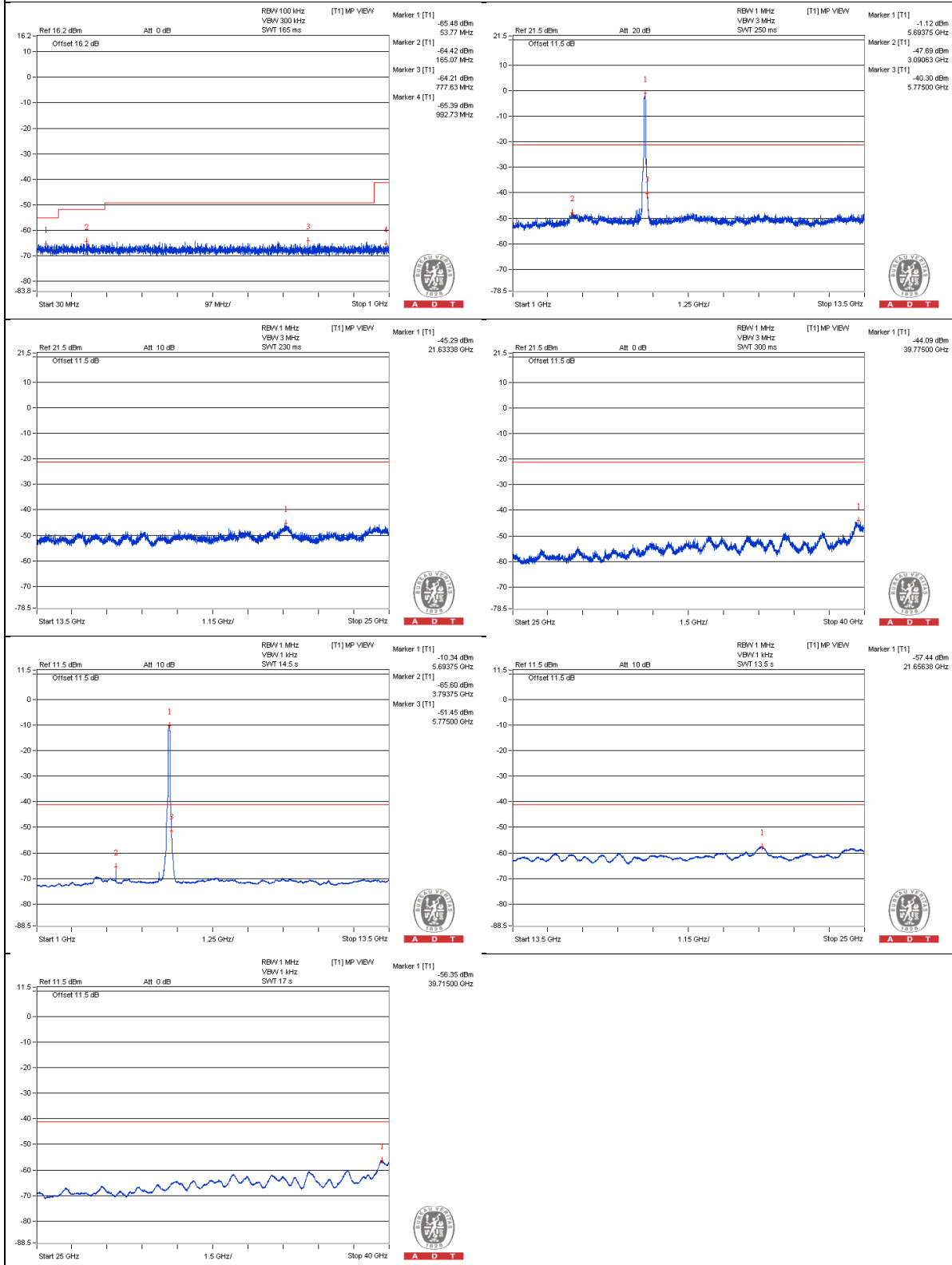
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 3775 PK         | 56.72                   | 74             | -17.28      | -48.72          | -50.01 | 7.77                   | -38.54           |
| 2   | 3793.75 AV      | 44.2                    | 54             | -9.8        | -65.6           | -59.86 | 7.77                   | -51.06           |
| 3   | 7568.75 PK      | 56.16                   | 74             | -17.84      | -50.41          | -49.4  | 7.77                   | -39.1            |
| 4   | 7587.5 AV       | 35.54                   | 54             | -18.46      | -70.48          | -70.53 | 7.77                   | -59.72           |
| 5   | 11371.875 PK    | 56.57                   | 74             | -17.43      | -50.64          | -48.55 | 7.77                   | -38.69           |
| 6   | 11368.75 AV     | 39.57                   | 54             | -14.43      | -71.06          | -64.29 | 7.77                   | -55.69           |
| 7   | 17056.375 PK    | 55.81                   | 74             | -18.19      | -50.38          | -50.09 | 7.77                   | -39.45           |
| 8   | 17050.625 AV    | 44.87                   | 54             | -9.13       | -61.23          | -61.11 | 7.77                   | -50.39           |

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

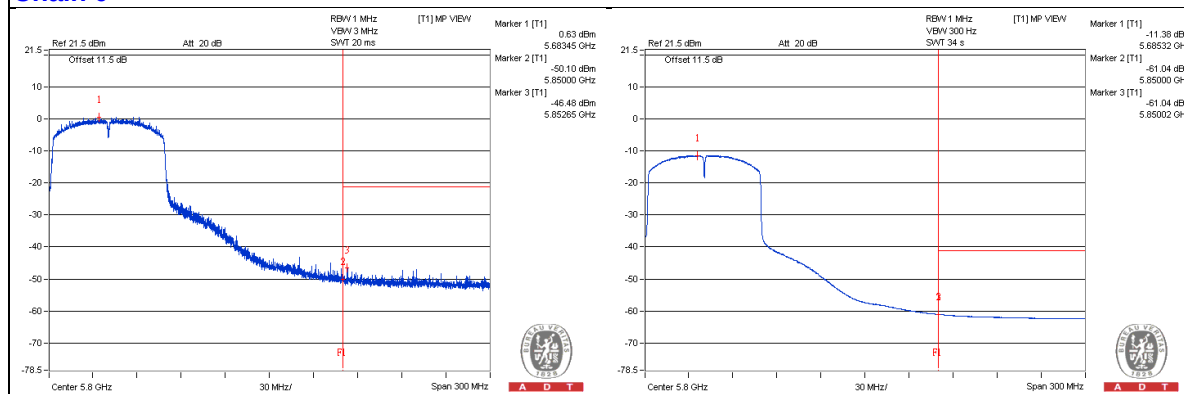
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 5827.45 PK      | 60.54                   | 74             | -13.46      | -50.01          | -43.33 | 7.77                   | -34.72           |
| 2   | 5825.05 AV      | 47.48                   | 54             | -6.52       | -59.52          | -57.78 | 7.77                   | -47.78           |

Note :

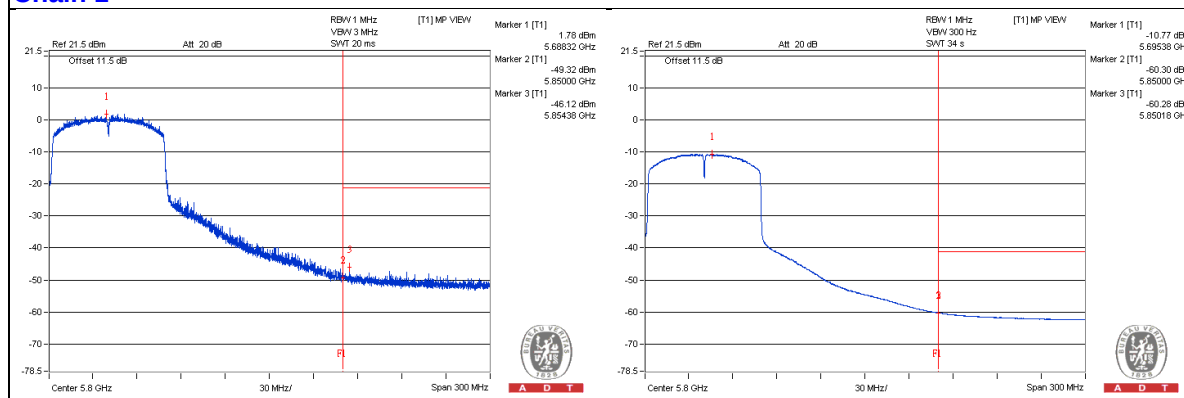
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



# Below 1GHz Data

## 802.11a - Channel 40

### Conducted spurious emission table

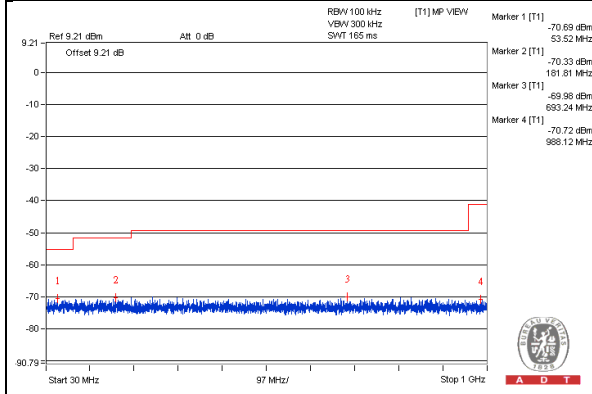
| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value (dBm) |        | Correction Factor (dB) | EIRP Level (dBm) |
|-----|-----------------|-------------------------|----------------|-------------|-----------------|--------|------------------------|------------------|
|     |                 |                         |                |             | Chain0          | Chain1 |                        |                  |
| 1   | 53.28           | 34.75                   | 40             | -5.25       | -71.05          | -71.55 | 7.77                   | -60.51           |
| 2   | 215.5125        | 35.11                   | 43.5           | -8.39       | -70.35          | -71.6  | 7.77                   | -60.15           |
| 3   | 317.3625        | 34.8                    | 46             | -11.2       | -70.37          | -72.33 | 7.77                   | -60.46           |
| 4   | 431.3375        | 34.92                   | 46             | -11.08      | -70.87          | -71.39 | 7.77                   | -60.34           |
| 5   | 693.2375        | 34.89                   | 46             | -11.11      | -69.98          | -72.76 | 7.77                   | -60.37           |
| 6   | 877.295         | 34.57                   | 46             | -11.43      | -72.25          | -70.81 | 7.77                   | -60.69           |

Note :

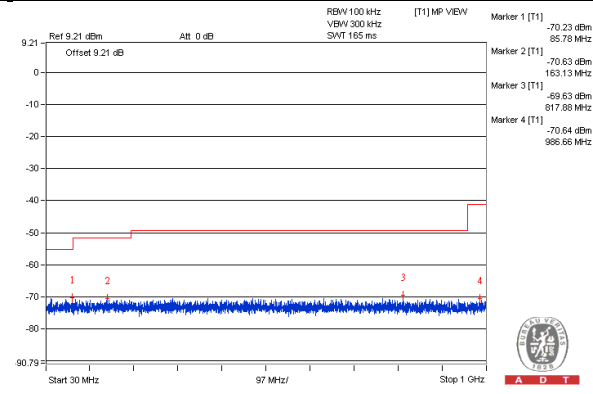
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

#### Chain 0



#### Chain 1

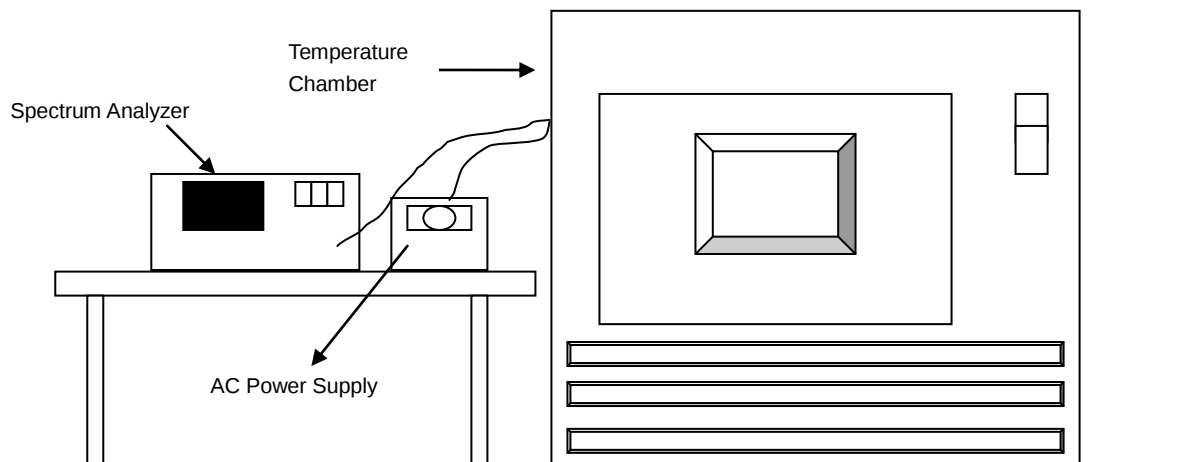


## 4.5 Frequency Stability Measurement

### 4.5.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

| DESCRIPTION & MANUFACTURER                   | MODEL NO.            | SERIAL NO.  | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------------------------|----------------------|-------------|-----------------|------------------|
| SPECTRUM ANALYZER<br>R&S                     | FSP 40               | 100060      | May 08, 2014    | May 07, 2015     |
| Temperature & Humidity Chamber<br>GIANTFORCE | GTH-150-40-S<br>P-AR | MAA0812-008 | Jan. 12, 2015   | Jan. 11, 2016    |

#### Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date :Feb. 25, 2015

### 4.5.4 Test Procedures

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

#### **4.5.5 Deviation from Test Standard**

No deviation.

#### **4.5.6 EUT Operating Conditions**

Set the EUT transmit at un-modulation mode to test frequency stability.

#### 4.5.7 Test Results

| Frequency Stability Versus Temp. |                          |                                |                           |                                |                           |                                |                           |                                |                           |
|----------------------------------|--------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|
| Operating Frequency: 5320MHz     |                          |                                |                           |                                |                           |                                |                           |                                |                           |
| Temp.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                           | 2 Minute                       |                           | 5 Minute                       |                           | 10 Minute                      |                           |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) |
| 50                               | 120                      | 5319.9976                      | -0.00005                  | 5319.9973                      | -0.00005                  | 5319.9988                      | -0.00002                  | 5320.0017                      | 0.00003                   |
| 40                               | 120                      | 5320.0257                      | 0.00048                   | 5320.0246                      | 0.00046                   | 5320.0253                      | 0.00048                   | 5320.0248                      | 0.00047                   |
| 30                               | 120                      | 5319.976                       | -0.00045                  | 5319.9754                      | -0.00046                  | 5319.9748                      | -0.00047                  | 5319.9744                      | -0.00048                  |
| 20                               | 120                      | 5320.0019                      | 0.00004                   | 5320.0001                      | 0.00000                   | 5319.9984                      | -0.00003                  | 5320.0001                      | 0.00000                   |
| 10                               | 120                      | 5319.9912                      | -0.00017                  | 5319.9903                      | -0.00018                  | 5319.9912                      | -0.00017                  | 5319.9924                      | -0.00014                  |
| 0                                | 120                      | 5319.9963                      | -0.00007                  | 5319.9988                      | -0.00002                  | 5319.9964                      | -0.00007                  | 5319.9988                      | -0.00002                  |
| -10                              | 120                      | 5319.9936                      | -0.00012                  | 5319.9943                      | -0.00011                  | 5319.9921                      | -0.00015                  | 5319.9953                      | -0.00009                  |
| -20                              | 120                      | 5320.0006                      | 0.00001                   | 5319.9995                      | -0.00001                  | 5319.9992                      | -0.00002                  | 5320.0019                      | 0.00004                   |
| -30                              | 120                      | 5320.0248                      | 0.00047                   | 5320.0284                      | 0.00053                   | 5320.0263                      | 0.00049                   | 5320.0264                      | 0.00050                   |

| Frequency Stability Versus Temp. |                          |                                |                           |                                |                           |                                |                           |                                |                           |
|----------------------------------|--------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------|
| Operating Frequency: 5320MHz     |                          |                                |                           |                                |                           |                                |                           |                                |                           |
| Temp.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                           | 2 Minute                       |                           | 5 Minute                       |                           | 10 Minute                      |                           |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) | Measured<br>Frequency<br>(MHz) | Frequency<br>Drift<br>(%) |
| 20                               | 138                      | 5320.0029                      | 0.00005                   | 5320.0005                      | 0.00001                   | 5319.9994                      | -0.00001                  | 5319.9999                      | 0.00000                   |
|                                  | 120                      | 5320.0019                      | 0.00004                   | 5320.0001                      | 0.00000                   | 5319.9984                      | -0.00003                  | 5320.0001                      | 0.00000                   |
|                                  | 102                      | 5320.0022                      | 0.00004                   | 5319.9997                      | -0.00001                  | 5319.999                       | -0.00002                  | 5320.001                       | 0.00002                   |

## 4.6 Conducted Emission Measurement

### 4.6.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.6.2 Test Instruments

| DESCRIPTION & MANUFACTURER                                                     | MODEL NO.                   | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--------------------------------------------------------------------------------|-----------------------------|------------|-----------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ                                               | ESCS 30                     | 100375     | Apr. 29, 2014   | Apr. 28, 2015    |
| Line-Impedance<br>Stabilization Network<br>(for EUT)<br>SCHWARZBECK            | NSLK-8127                   | 8127-522   | Sep. 15, 2014   | Sep. 14, 2015    |
| Line-Impedance<br>Stabilization Network<br>(for Peripheral)<br>ROHDE & SCHWARZ | ENV216                      | 100071     | Nov. 10, 2014   | Nov. 09, 2015    |
| RF Cable<br>(JYEBAO)                                                           | 5DFB                        | COCCAB-001 | Mar. 10, 2014   | Mar. 09, 2015    |
| 50 ohms Terminator                                                             | N/A                         | EMC-03     | Sep. 22, 2014   | Sep. 21, 2015    |
| 50 ohms Terminator                                                             | N/A                         | EMC-02     | Sep. 30, 2014   | Sep. 29, 2015    |
| Software<br>ADT                                                                | BV<br>ADT_Cond_V7.3.7.<br>3 | NA         | NA              | NA               |

#### Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: Feb. 17, 2015

#### 4.6.3 Test Procedures

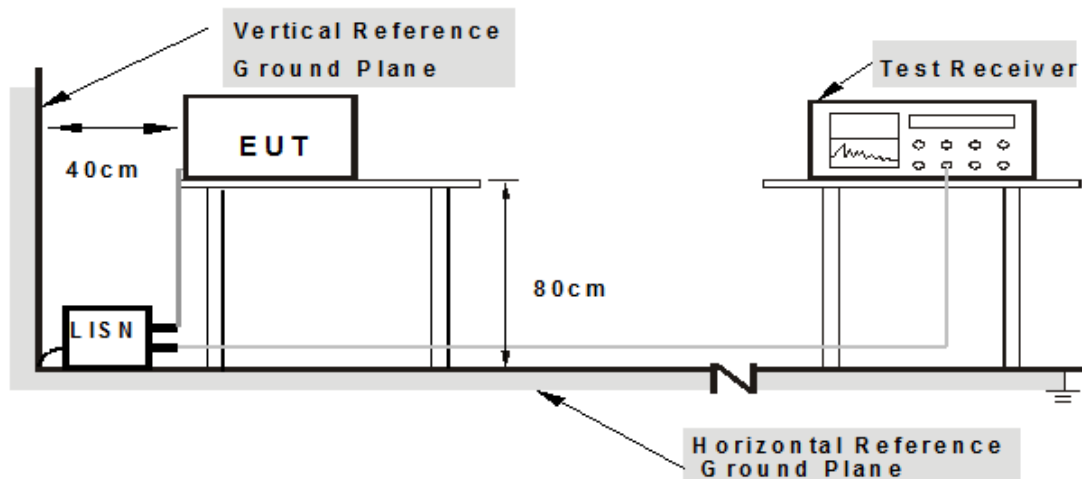
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

#### 4.6.4 Deviation from Test Standard

No deviation.

#### 4.6.5 Test Setup



**Note:** 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.6.6 EUT Operating Conditions

Same as 4.4.6.

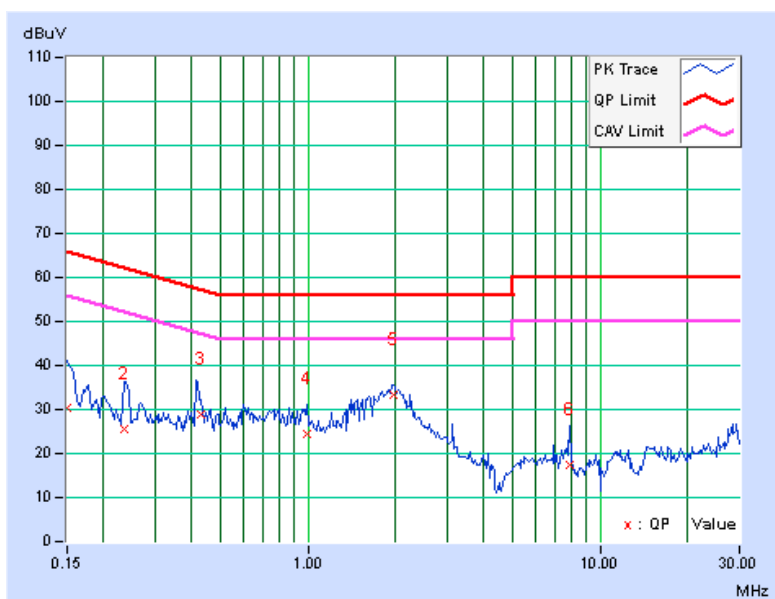
#### 4.6.7 Test Results

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |              | Emission Level (dBuV) |              | Limit (dBuV) |              | Margin (dB)   |               |
|----|-----------------|------------------------|----------------------|--------------|-----------------------|--------------|--------------|--------------|---------------|---------------|
|    |                 |                        | Q.P.                 | AV.          | Q.P.                  | AV.          | Q.P.         | AV.          | Q.P.          | AV.           |
| 1  | 0.15000         | 0.07                   | 30.31                | 23.08        | 30.38                 | 23.15        | 66.00        | 56.00        | -35.62        | -32.85        |
| 2  | 0.23594         | 0.07                   | 25.48                | 20.04        | 25.55                 | 20.11        | 62.24        | 52.24        | -36.68        | -32.12        |
| 3  | 0.43062         | 0.09                   | 28.79                | 27.79        | 28.88                 | 27.88        | 57.24        | 47.24        | -28.36        | -19.36        |
| 4  | 0.99766         | 0.13                   | 24.46                | 20.70        | 24.59                 | 20.83        | 56.00        | 46.00        | -31.41        | -25.17        |
| 5  | <b>1.97391</b>  | <b>0.18</b>            | <b>33.11</b>         | <b>29.59</b> | <b>33.29</b>          | <b>29.77</b> | <b>56.00</b> | <b>46.00</b> | <b>-22.71</b> | <b>-16.23</b> |
| 6  | 7.91016         | 0.38                   | 16.86                | 10.03        | 17.24                 | 10.41        | 60.00        | 50.00        | -42.76        | -39.59        |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

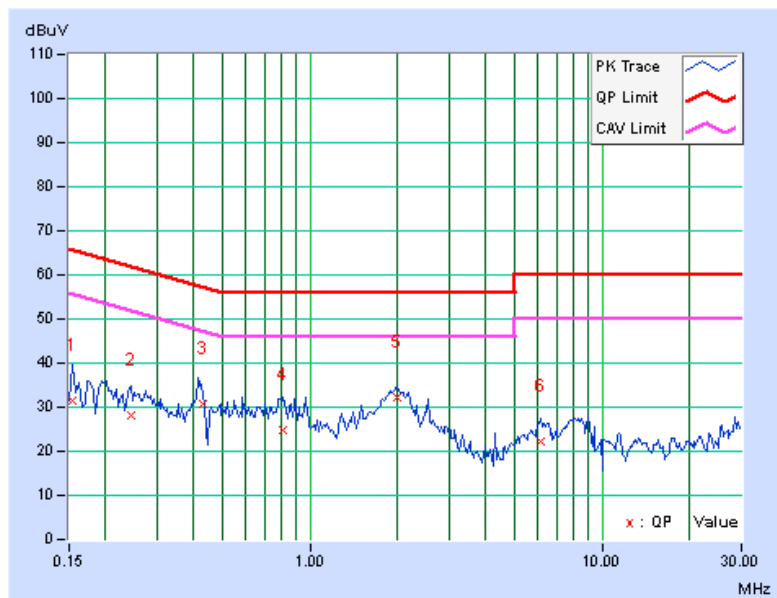


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|----|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
|    |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1  | 0.15391         | 0.06                   | 31.30                | 23.29 | 31.36                 | 23.35 | 65.79        | 55.79 | -34.42      | -32.43 |
| 2  | 0.24375         | 0.07                   | 28.12                | 24.69 | 28.19                 | 24.76 | 61.97        | 51.97 | -33.78      | -27.21 |
| 3  | 0.43062         | 0.09                   | 30.73                | 29.60 | 30.82                 | 29.69 | 57.24        | 47.24 | -26.42      | -17.55 |
| 4  | 0.81016         | 0.12                   | 24.54                | 21.20 | 24.66                 | 21.32 | 56.00        | 46.00 | -31.34      | -24.68 |
| 5  | 2.00000         | 0.18                   | 32.06                | 29.04 | 32.24                 | 29.22 | 56.00        | 46.00 | -23.76      | -16.78 |
| 6  | 6.16797         | 0.33                   | 21.85                | 18.85 | 22.18                 | 19.18 | 60.00        | 50.00 | -37.82      | -30.82 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## 6 Appendix A – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

## 7 Appendix B – Radiated Emission Measurement

### 7.1.1 Limits of Radiated Emission Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009-0.490       | $2400/F(\text{kHz})$              | 300                           |
| 0.490-1.705       | $24000/F(\text{kHz})$             | 30                            |
| 1.705-30.0        | 30                                | 30                            |
| 30-88             | 100                               | 3                             |
| 88-216            | 150                               | 3                             |
| 216-960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) =  $20 \log$  Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

### 7.1.2 Test Instruments

| DESCRIPTION & MANUFACTURER              | MODEL NO.                | SERIAL NO.                      | CALIBRATED DATE | CALIBRATED UNTIL |
|-----------------------------------------|--------------------------|---------------------------------|-----------------|------------------|
| MXE EMI Receiver<br>Agilent             | N9038A                   | MY50010156                      | Aug. 11, 2014   | Aug. 10, 2015    |
| Pre-Amplifier<br>Mini-Circuits          | ZFL-1000VH2<br>B         | AMP-ZFL-04                      | Nov. 12, 2014   | Nov. 11, 2015    |
| Trilog Broadband Antenna<br>SCHWARZBECK | VULB 9168                | 9168-361                        | Feb. 27, 2014   | Feb. 26, 2015    |
| RF Cable                                | NA                       | CHHCAB_001                      | Oct. 05, 2014   | Oct. 04, 2015    |
| Horn_Antenna<br>AISI                    | AIH.8018                 | 0000220091110                   | Aug. 26, 2014   | Aug. 25, 2015    |
| Pre-Amplifier<br>Agilent                | 8449B                    | 300801923                       | Oct. 28, 2014   | Oct. 27, 2015    |
| RF Cable                                | NA                       | 131206<br>131215<br>SNMY23685/4 | Jan. 16, 2015   | Jan. 15, 2016    |
| Spectrum Analyzer<br>R&S                | FSV40                    | 100964                          | July 05, 2014   | July 04, 2015    |
| Pre-Amplifier<br>EMCI                   | EMC184045                | 980143                          | Jan. 16, 2015   | Jan. 15, 2016    |
| Horn_Antenna<br>SCHWARZBECK             | BBHA 9170                | 9170-424                        | Aug. 26, 2014   | Aug. 25, 2015    |
| RF Cable                                | NA                       | RF104-121<br>RF104-204          | Dec. 11, 2014   | Dec. 10, 2015    |
| Software                                | ADT_Radiated<br>_V8.7.07 | NA                              | NA              | NA               |
| Antenna Tower & Turn Table<br>CT        | NA                       | NA                              | NA              | NA               |

#### Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Feb. 16, 2015

### 7.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

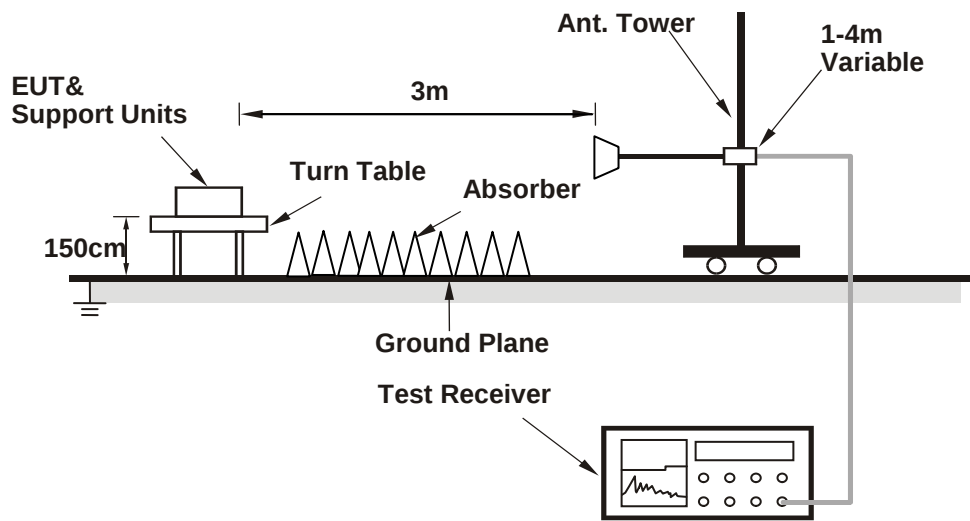
#### NOTE:

1. For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the ground at 3 meter chamber room for test
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

### 7.1.4 Deviation from Test Standard

No deviation

### 7.1.5 Test Setup



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 7.1.6 EUT Operating Conditions

Same as 4.4.6.

### 7.1.7 Test Results

The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

#### 802.11ac (VHT80)

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 106 | <b>DETECTOR FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                          | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5469.88    | 64.1 PK                 | 74.0           | -9.9        | 1.15 H             | 121                  | 55.91            | 8.19                     |
| 2                                                   | #5469.88    | 49.6 AV                 | 54.0           | -4.4        | 1.15 H             | 121                  | 41.41            | 8.19                     |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |             |                         |                |             |                    |                      |                  |                          |
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | #5469.88    | 66.9 PK                 | 74.0           | -7.1        | 1.01 V             | 223                  | 58.71            | 8.19                     |
| 2                                                   | #5469.88    | 50.9 AV                 | 54.0           | -3.1        | 1.01 V             | 223                  | 42.71            | 8.19                     |

#### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. " # ": The radiated frequency is out of the restricted band.

--- END ---