

## Radiated Emission test (below 1GHz)

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
BELOW1G.EM6

Test Date : 2021-03-23

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

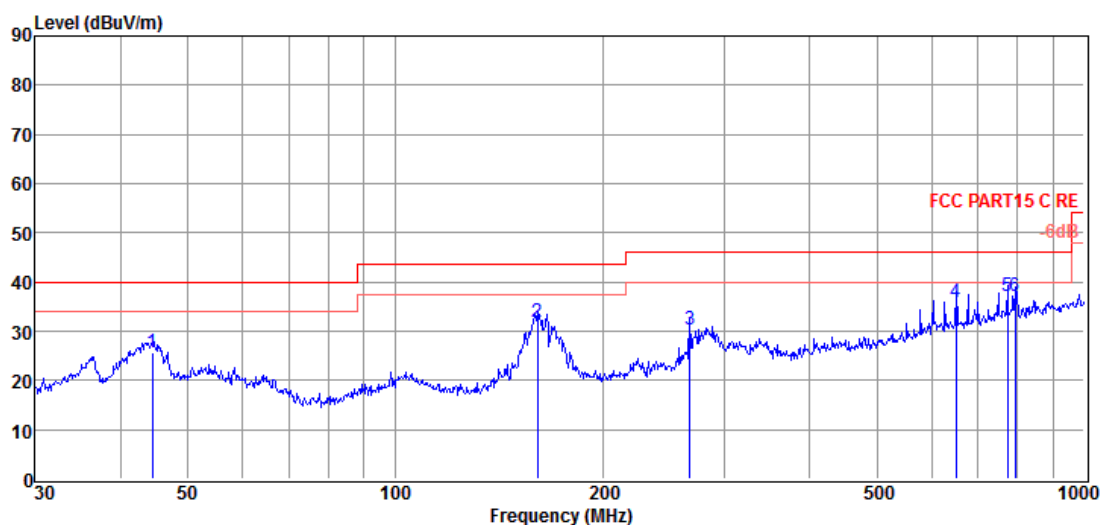
Power Supply : DC 120V60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 VULB 9163 2#/3m/HORIZONTAL

Memo : WIFI 5G



Data: 7

| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 44.43          | 9.06                    | 12.94                       | 3.80                | 25.80                       | 40.00                     | -14.20                | QP       | HORIZONTAL   |
| 2              | 160.91         | 18.77                   | 8.32                        | 4.82                | 31.91                       | 43.50                     | -11.59                | QP       | HORIZONTAL   |
| 3              | 267.55         | 12.50                   | 12.52                       | 5.35                | 30.37                       | 46.00                     | -15.63                | QP       | HORIZONTAL   |
| 4              | 651.94         | 9.66                    | 19.32                       | 6.91                | 35.89                       | 46.00                     | -10.11                | QP       | HORIZONTAL   |
| 5              | 774.16         | 9.09                    | 20.85                       | 7.28                | 37.22                       | 46.00                     | -8.78                 | QP       | HORIZONTAL   |
| 6              | 793.40         | 8.76                    | 20.89                       | 7.33                | 36.98                       | 46.00                     | -9.02                 | QP       | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
BELOW1G.EM6

**Test Date** : 2021-03-24

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

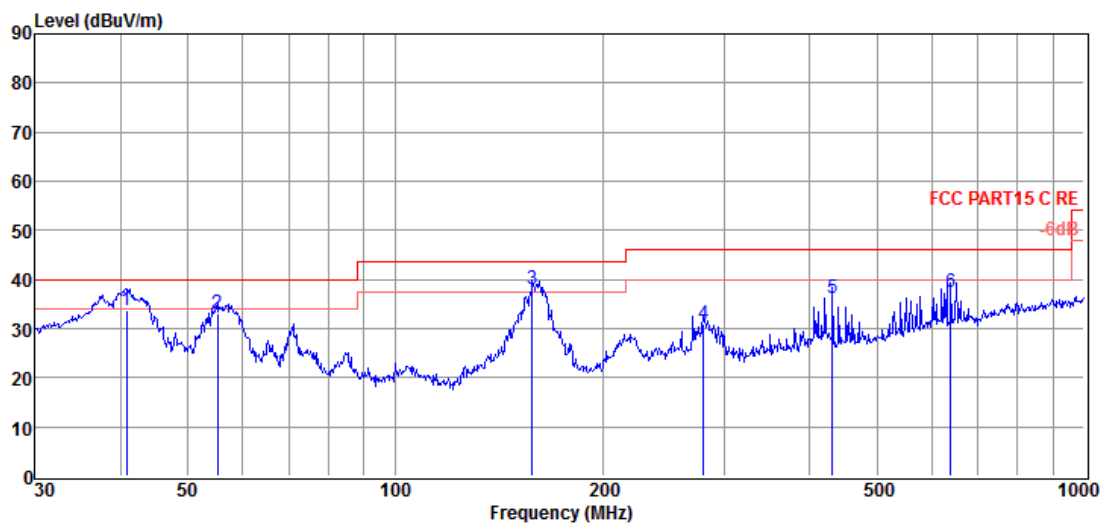
**Power Supply** : DC 120V60Hz

**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 VULB 9163 2#/3m/VERTICAL

**Memo** : WIFI 5G



Data: 8

| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 40.70          | 18.30                   | 11.68                       | 3.77                | 33.75                       | 40.00                     | -6.25                 | QP       | VERTICAL     |
| 2              | 55.22          | 16.42                   | 12.86                       | 3.91                | 33.19                       | 40.00                     | -6.81                 | QP       | VERTICAL     |
| 3              | 158.11         | 24.88                   | 8.21                        | 4.80                | 37.89                       | 43.50                     | -5.61                 | QP       | VERTICAL     |
| 4              | 280.02         | 12.68                   | 12.70                       | 5.40                | 30.78                       | 46.00                     | -15.22                | QP       | VERTICAL     |
| 5              | 431.03         | 14.22                   | 16.01                       | 6.04                | 36.27                       | 46.00                     | -9.73                 | QP       | VERTICAL     |
| 6              | 640.61         | 11.23                   | 19.28                       | 6.87                | 37.38                       | 46.00                     | -8.62                 | QP       | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

**Radiated Emission test (above 1GHz)**

| Freq (MHz)      | Read level (dBμV) | Antenna Factor (dB/m) | PRM Factor(dB) | Cable Loss (dB) | Result Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector type | Polarization |
|-----------------|-------------------|-----------------------|----------------|-----------------|-----------------------|----------------|-------------|---------------|--------------|
| <b>11a CH36</b> |                   |                       |                |                 |                       |                |             |               |              |
| 6916.00         | 47.02             | 36.10                 | 43.04          | 7.94            | 48.02                 | 74.00          | -25.98      | Peak          | HORIZONTAL   |
| 8565.00         | 45.71             | 38.04                 | 42.01          | 8.90            | 50.64                 | 74.00          | -23.36      | Peak          | HORIZONTAL   |
| 10469.00        | 45.29             | 39.55                 | 42.54          | 10.36           | 52.66                 | 74.00          | -21.34      | Peak          | HORIZONTAL   |
| 12849.00        | 45.43             | 39.46                 | 42.77          | 11.44           | 53.56                 | 74.00          | -20.44      | Peak          | HORIZONTAL   |
| 15705.00        | 43.62             | 39.35                 | 42.13          | 12.49           | 53.33                 | 74.00          | -20.67      | Peak          | HORIZONTAL   |
| 17184.00        | 41.70             | 43.50                 | 42.26          | 13.73           | 56.67                 | 74.00          | -17.33      | Peak          | HORIZONTAL   |
| 17184.00        | 35.60             | 43.50                 | 42.26          | 13.73           | 50.57                 | 54.00          | -3.43       | Average       | HORIZONTAL   |
| 7494.00         | 47.15             | 37.09                 | 42.64          | 8.83            | 50.43                 | 74.00          | -23.57      | Peak          | VERTICAL     |
| 9670.00         | 45.44             | 38.80                 | 42.07          | 9.87            | 52.04                 | 74.00          | -21.96      | Peak          | VERTICAL     |
| 11217.00        | 45.14             | 39.80                 | 42.56          | 10.81           | 53.19                 | 74.00          | -20.81      | Peak          | VERTICAL     |
| 13240.00        | 44.57             | 40.23                 | 42.88          | 11.36           | 53.28                 | 74.00          | -20.72      | Peak          | VERTICAL     |
| 15671.00        | 43.19             | 39.39                 | 42.11          | 12.47           | 52.94                 | 74.00          | -21.06      | Peak          | VERTICAL     |
| 17184.00        | 42.62             | 43.50                 | 42.26          | 13.73           | 57.59                 | 74.00          | -16.41      | Peak          | VERTICAL     |
| 17184.00        | 34.20             | 43.50                 | 42.26          | 13.73           | 49.17                 | 54.00          | -4.83       | Average       | VERTICAL     |
| <b>11a CH40</b> |                   |                       |                |                 |                       |                |             |               |              |
| 7171.00         | 47.63             | 36.57                 | 42.87          | 8.27            | 49.60                 | 74.00          | -24.40      | Peak          | HORIZONTAL   |
| 9041.00         | 45.91             | 38.34                 | 41.82          | 9.53            | 51.96                 | 74.00          | -22.04      | Peak          | HORIZONTAL   |
| 11064.00        | 45.02             | 39.80                 | 42.80          | 10.64           | 52.66                 | 74.00          | -21.34      | Peak          | HORIZONTAL   |
| 12849.00        | 45.30             | 39.46                 | 42.77          | 11.44           | 53.43                 | 74.00          | -20.57      | Peak          | HORIZONTAL   |
| 15841.00        | 43.42             | 39.19                 | 42.21          | 12.57           | 52.97                 | 74.00          | -21.03      | Peak          | HORIZONTAL   |
| 17150.00        | 41.55             | 43.24                 | 42.25          | 13.76           | 56.30                 | 74.00          | -17.70      | Peak          | HORIZONTAL   |
| 17150.00        | 35.42             | 43.24                 | 42.25          | 13.76           | 50.17                 | 54.00          | -3.83       | Average       | HORIZONTAL   |
| 6916.00         | 47.77             | 36.10                 | 43.04          | 7.94            | 48.77                 | 74.00          | -25.23      | Peak          | VERTICAL     |
| 8565.00         | 45.55             | 38.04                 | 42.01          | 8.90            | 50.48                 | 74.00          | -23.52      | Peak          | VERTICAL     |
| 10401.00        | 45.45             | 39.44                 | 42.49          | 10.34           | 52.74                 | 74.00          | -21.26      | Peak          | VERTICAL     |
| 13189.00        | 44.59             | 40.12                 | 42.90          | 11.32           | 53.13                 | 74.00          | -20.87      | Peak          | VERTICAL     |
| 15841.00        | 42.75             | 39.19                 | 42.21          | 12.57           | 52.30                 | 74.00          | -21.70      | Peak          | VERTICAL     |
| 17184.00        | 41.69             | 43.50                 | 42.26          | 13.73           | 56.66                 | 74.00          | -17.34      | Peak          | VERTICAL     |
| 17184.00        | 35.20             | 43.50                 | 42.26          | 13.73           | 50.17                 | 54.00          | -3.83       | Average       | VERTICAL     |
| <b>11a CH48</b> |                   |                       |                |                 |                       |                |             |               |              |
| 7171.00         | 47.06             | 36.57                 | 42.87          | 8.27            | 49.03                 | 74.00          | -24.97      | Peak          | HORIZONTAL   |
| 9449.00         | 45.80             | 38.75                 | 41.98          | 9.65            | 52.22                 | 74.00          | -21.78      | Peak          | HORIZONTAL   |
| 11234.00        | 45.15             | 39.80                 | 42.54          | 10.83           | 53.24                 | 74.00          | -20.76      | Peak          | HORIZONTAL   |
| 13155.00        | 44.97             | 40.04                 | 42.92          | 11.29           | 53.38                 | 74.00          | -20.62      | Peak          | HORIZONTAL   |
| 15671.00        | 43.47             | 39.39                 | 42.11          | 12.47           | 53.22                 | 74.00          | -20.78      | Peak          | HORIZONTAL   |
| 17201.00        | 42.59             | 43.63                 | 42.26          | 13.71           | 57.67                 | 74.00          | -16.33      | Peak          | HORIZONTAL   |
| 17201.00        | 34.52             | 43.63                 | 42.26          | 13.71           | 49.60                 | 54.00          | -4.40       | Average       | HORIZONTAL   |
| 7494.00         | 47.00             | 37.09                 | 42.64          | 8.83            | 50.28                 | 74.00          | -23.72      | Peak          | VERTICAL     |
| 9194.00         | 44.83             | 38.49                 | 41.88          | 9.58            | 51.02                 | 74.00          | -22.98      | Peak          | VERTICAL     |
| 10435.00        | 45.00             | 39.50                 | 42.51          | 10.35           | 52.34                 | 74.00          | -21.66      | Peak          | VERTICAL     |
| 13036.00        | 44.50             | 39.78                 | 42.98          | 11.19           | 52.49                 | 74.00          | -21.51      | Peak          | VERTICAL     |
| 15484.00        | 43.07             | 39.63                 | 42.00          | 12.40           | 53.10                 | 74.00          | -20.90      | Peak          | VERTICAL     |
| 16980.00        | 43.52             | 42.06                 | 42.20          | 13.87           | 57.25                 | 74.00          | -16.75      | Peak          | VERTICAL     |

|          |       |       |       |       |       |       |       |         |          |
|----------|-------|-------|-------|-------|-------|-------|-------|---------|----------|
| 16980.00 | 35.90 | 42.06 | 42.20 | 13.87 | 49.63 | 54.00 | -4.37 | Average | VERTICAL |
|----------|-------|-------|-------|-------|-------|-------|-------|---------|----------|

| Freq<br>(MHz)    | Read<br>level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor(dB) | Cable<br>Loss<br>(dB) | Result<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector<br>type | Polarization |
|------------------|-------------------------|-----------------------------|-------------------|-----------------------|-----------------------------|-------------------|----------------|------------------|--------------|
| <b>11a CH52</b>  |                         |                             |                   |                       |                             |                   |                |                  |              |
| 7256.00          | 47.72                   | 36.71                       | 42.81             | 8.42                  | 50.04                       | 74.00             | -23.96         | Peak             | HORIZONTAL   |
| 9041.00          | 45.44                   | 38.34                       | 41.82             | 9.53                  | 51.49                       | 74.00             | -22.51         | Peak             | HORIZONTAL   |
| 10996.00         | 45.05                   | 39.80                       | 42.90             | 10.57                 | 52.52                       | 74.00             | -21.48         | Peak             | HORIZONTAL   |
| 12849.00         | 45.03                   | 39.46                       | 42.77             | 11.44                 | 53.16                       | 74.00             | -20.84         | Peak             | HORIZONTAL   |
| 15705.00         | 42.46                   | 39.35                       | 42.13             | 12.49                 | 52.17                       | 74.00             | -21.83         | Peak             | HORIZONTAL   |
| 17150.00         | 41.85                   | 43.24                       | 42.25             | 13.76                 | 56.60                       | 74.00             | -17.40         | Peak             | HORIZONTAL   |
| 17150.00         | 35.42                   | 43.24                       | 42.25             | 13.76                 | 50.17                       | 54.00             | -3.83          | Average          | HORIZONTAL   |
| 7494.00          | 46.68                   | 37.09                       | 42.64             | 8.83                  | 49.96                       | 74.00             | -24.04         | Peak             | VERTICAL     |
| 9500.00          | 45.22                   | 38.80                       | 42.01             | 9.66                  | 51.67                       | 74.00             | -22.33         | Peak             | VERTICAL     |
| 11081.00         | 44.75                   | 39.80                       | 42.77             | 10.66                 | 52.44                       | 74.00             | -21.56         | Peak             | VERTICAL     |
| 13155.00         | 44.56                   | 40.04                       | 42.92             | 11.29                 | 52.97                       | 74.00             | -21.03         | Peak             | VERTICAL     |
| 15756.00         | 43.26                   | 39.29                       | 42.16             | 12.52                 | 52.91                       | 74.00             | -21.09         | Peak             | VERTICAL     |
| 17150.00         | 42.66                   | 43.24                       | 42.25             | 13.76                 | 57.41                       | 74.00             | -16.59         | Peak             | VERTICAL     |
| 17150.00         | 35.10                   | 43.24                       | 42.25             | 13.76                 | 49.85                       | 54.00             | -4.15          | Average          | VERTICAL     |
| <b>11a CH64</b>  |                         |                             |                   |                       |                             |                   |                |                  |              |
| 5675.00          | 48.25                   | 33.11                       | 43.41             | 7.22                  | 45.17                       | 74.00             | -28.83         | Peak             | HORIZONTAL   |
| 7579.00          | 47.33                   | 37.23                       | 42.58             | 8.81                  | 50.79                       | 74.00             | -23.21         | Peak             | HORIZONTAL   |
| 9959.00          | 45.39                   | 38.80                       | 42.18             | 10.23                 | 52.24                       | 74.00             | -21.76         | Peak             | HORIZONTAL   |
| 12849.00         | 45.25                   | 39.46                       | 42.77             | 11.44                 | 53.38                       | 74.00             | -20.62         | Peak             | HORIZONTAL   |
| 15756.00         | 43.37                   | 39.29                       | 42.16             | 12.52                 | 53.02                       | 74.00             | -20.98         | Peak             | HORIZONTAL   |
| 17252.00         | 41.08                   | 44.02                       | 42.28             | 13.66                 | 56.48                       | 74.00             | -17.52         | Peak             | HORIZONTAL   |
| 17252.00         | 35.21                   | 44.02                       | 42.28             | 13.66                 | 50.61                       | 54.00             | -3.39          | Average          | HORIZONTAL   |
| 6831.00          | 47.84                   | 35.89                       | 43.08             | 7.92                  | 48.57                       | 74.00             | -25.43         | Peak             | VERTICAL     |
| 9075.00          | 45.85                   | 38.38                       | 41.83             | 9.54                  | 51.94                       | 74.00             | -22.06         | Peak             | VERTICAL     |
| 10401.00         | 45.37                   | 39.44                       | 42.49             | 10.34                 | 52.66                       | 74.00             | -21.34         | Peak             | VERTICAL     |
| 12985.00         | 45.26                   | 39.68                       | 42.98             | 11.19                 | 53.15                       | 74.00             | -20.85         | Peak             | VERTICAL     |
| 15705.00         | 43.68                   | 39.35                       | 42.13             | 12.49                 | 53.39                       | 74.00             | -20.61         | Peak             | VERTICAL     |
| 16980.00         | 43.23                   | 42.06                       | 42.20             | 13.87                 | 56.96                       | 74.00             | -17.04         | Peak             | VERTICAL     |
| 16980.00         | 35.30                   | 42.06                       | 42.20             | 13.87                 | 49.03                       | 54.00             | -4.97          | Average          | VERTICAL     |
| <b>11a CH100</b> |                         |                             |                   |                       |                             |                   |                |                  |              |
| 6661.00          | 46.38                   | 35.49                       | 43.16             | 7.86                  | 46.57                       | 74.00             | -27.43         | Peak             | HORIZONTAL   |
| 8089.00          | 47.50                   | 37.92                       | 42.25             | 8.66                  | 51.83                       | 74.00             | -22.17         | Peak             | HORIZONTAL   |
| 9534.00          | 45.79                   | 38.80                       | 42.02             | 9.70                  | 52.27                       | 74.00             | -21.73         | Peak             | HORIZONTAL   |
| 13325.00         | 44.29                   | 40.42                       | 42.83             | 11.43                 | 53.31                       | 74.00             | -20.69         | Peak             | HORIZONTAL   |
| 15807.00         | 42.40                   | 39.23                       | 42.19             | 12.55                 | 51.99                       | 74.00             | -22.01         | Peak             | HORIZONTAL   |
| 17269.00         | 41.98                   | 44.14                       | 42.28             | 13.65                 | 57.49                       | 74.00             | -16.51         | Peak             | HORIZONTAL   |
| 17269.00         | 34.25                   | 44.14                       | 42.28             | 13.65                 | 49.76                       | 54.00             | -4.24          | Average          | HORIZONTAL   |
| 6185.00          | 48.49                   | 34.09                       | 43.40             | 7.55                  | 46.73                       | 74.00             | -27.27         | Peak             | VERTICAL     |
| 8021.00          | 47.08                   | 37.90                       | 42.29             | 8.64                  | 51.33                       | 74.00             | -22.67         | Peak             | VERTICAL     |

|                  |       |       |       |       |       |       |        |         |            |
|------------------|-------|-------|-------|-------|-------|-------|--------|---------|------------|
| 10061.00         | 45.27 | 38.90 | 42.24 | 10.29 | 52.22 | 74.00 | -21.78 | Peak    | VERTICAL   |
| 13376.00         | 43.87 | 40.53 | 42.81 | 11.47 | 53.06 | 74.00 | -20.94 | Peak    | VERTICAL   |
| 15790.00         | 43.10 | 39.25 | 42.18 | 12.54 | 52.71 | 74.00 | -21.29 | Peak    | VERTICAL   |
| 17269.00         | 41.65 | 44.14 | 42.28 | 13.65 | 57.16 | 74.00 | -16.84 | Peak    | VERTICAL   |
| 17269.00         | 34.85 | 44.14 | 42.28 | 13.65 | 50.36 | 54.00 | -3.64  | Average | VERTICAL   |
| <b>11a CH116</b> |       |       |       |       |       |       |        |         |            |
| 6916.00          | 46.46 | 36.10 | 43.04 | 7.94  | 47.46 | 74.00 | -26.54 | Peak    | VERTICAL   |
| 9330.00          | 45.07 | 38.63 | 41.94 | 9.61  | 51.37 | 74.00 | -22.63 | Peak    | VERTICAL   |
| 11081.00         | 44.98 | 39.80 | 42.77 | 10.66 | 52.67 | 74.00 | -21.33 | Peak    | VERTICAL   |
| 12815.00         | 44.45 | 39.40 | 42.71 | 11.50 | 52.64 | 74.00 | -21.36 | Peak    | VERTICAL   |
| 15705.00         | 43.17 | 39.35 | 42.13 | 12.49 | 52.88 | 74.00 | -21.12 | Peak    | VERTICAL   |
| 17286.00         | 42.31 | 44.27 | 42.29 | 13.63 | 57.92 | 74.00 | -16.08 | Peak    | VERTICAL   |
| 17286.00         | 34.26 | 44.27 | 42.29 | 13.63 | 49.87 | 54.00 | -4.13  | Average | VERTICAL   |
| 6746.00          | 47.06 | 35.69 | 43.12 | 7.89  | 47.52 | 74.00 | -26.48 | Peak    | VERTICAL   |
| 9126.00          | 44.86 | 38.43 | 41.85 | 9.56  | 51.00 | 74.00 | -23.00 | Peak    | VERTICAL   |
| 11081.00         | 45.14 | 39.80 | 42.77 | 10.66 | 52.83 | 74.00 | -21.17 | Peak    | VERTICAL   |
| 13410.00         | 44.13 | 40.60 | 42.79 | 11.50 | 53.44 | 74.00 | -20.56 | Peak    | VERTICAL   |
| 15824.00         | 43.16 | 39.21 | 42.20 | 12.56 | 52.73 | 74.00 | -21.27 | Peak    | VERTICAL   |
| 17150.00         | 42.19 | 43.24 | 42.25 | 13.76 | 56.94 | 74.00 | -17.06 | Peak    | VERTICAL   |
| 17150.00         | 35.24 | 43.24 | 42.25 | 13.76 | 49.99 | 54.00 | -4.01  | Average | VERTICAL   |
| <b>11a CH140</b> |       |       |       |       |       |       |        |         |            |
| 6525.00          | 46.62 | 35.16 | 43.23 | 7.82  | 46.37 | 74.00 | -27.63 | Peak    | HORIZONTAL |
| 8140.00          | 46.36 | 37.93 | 42.23 | 8.68  | 50.74 | 74.00 | -23.26 | Peak    | HORIZONTAL |
| 10435.00         | 44.91 | 39.50 | 42.51 | 10.35 | 52.25 | 74.00 | -21.75 | Peak    | HORIZONTAL |
| 13189.00         | 44.47 | 40.12 | 42.90 | 11.32 | 53.01 | 74.00 | -20.99 | Peak    | HORIZONTAL |
| 15756.00         | 42.81 | 39.29 | 42.16 | 12.52 | 52.46 | 74.00 | -21.54 | Peak    | HORIZONTAL |
| 17320.00         | 41.16 | 44.53 | 42.30 | 13.60 | 56.99 | 74.00 | -17.01 | Peak    | HORIZONTAL |
| 17320.00         | 34.75 | 44.53 | 42.30 | 13.60 | 50.58 | 54.00 | -3.42  | Average | HORIZONTAL |
| 6695.00          | 44.48 | 35.72 | 43.71 | 8.20  | 44.69 | 74.00 | -29.31 | Peak    | VERTICAL   |
| 6916.00          | 46.46 | 36.10 | 43.04 | 7.94  | 47.46 | 74.00 | -26.54 | Peak    | VERTICAL   |
| 9330.00          | 45.07 | 38.63 | 41.94 | 9.61  | 51.37 | 74.00 | -22.63 | Peak    | VERTICAL   |
| 11081.00         | 44.98 | 39.80 | 42.77 | 10.66 | 52.67 | 74.00 | -21.33 | Peak    | VERTICAL   |
| 12815.00         | 44.45 | 39.40 | 42.71 | 11.50 | 52.64 | 74.00 | -21.36 | Peak    | VERTICAL   |
| 15705.00         | 43.17 | 39.35 | 42.13 | 12.49 | 52.88 | 74.00 | -21.12 | Peak    | VERTICAL   |
| 17286.00         | 42.31 | 44.27 | 42.29 | 13.63 | 57.92 | 74.00 | -16.08 | Peak    | VERTICAL   |
| <b>11a CH149</b> |       |       |       |       |       |       |        |         |            |
| 6661.00          | 46.99 | 35.49 | 43.16 | 7.86  | 47.18 | 74.00 | -26.82 | Peak    | HORIZONTAL |
| 8055.00          | 45.62 | 37.91 | 42.27 | 8.65  | 49.91 | 74.00 | -24.09 | Peak    | HORIZONTAL |
| 10299.00         | 44.91 | 39.28 | 42.42 | 10.33 | 52.10 | 74.00 | -21.90 | Peak    | HORIZONTAL |
| 12645.00         | 44.17 | 39.13 | 42.45 | 11.82 | 52.67 | 74.00 | -21.33 | Peak    | HORIZONTAL |
| 15705.00         | 42.18 | 39.35 | 42.13 | 12.49 | 51.89 | 74.00 | -22.11 | Peak    | HORIZONTAL |
| 17286.00         | 41.68 | 44.27 | 42.29 | 13.63 | 57.29 | 74.00 | -16.71 | Peak    | HORIZONTAL |
| 17286.00         | 34.27 | 44.27 | 42.29 | 13.63 | 49.88 | 54.00 | -4.12  | Average | HORIZONTAL |
| 6559.00          | 46.43 | 35.24 | 43.21 | 7.83  | 46.29 | 74.00 | -27.71 | Peak    | VERTICAL   |
| 7885.00          | 46.59 | 37.72 | 42.38 | 8.68  | 50.61 | 74.00 | -23.39 | Peak    | VERTICAL   |
| 10044.00         | 45.29 | 38.87 | 42.23 | 10.29 | 52.22 | 74.00 | -21.78 | Peak    | VERTICAL   |
| 13121.00         | 44.86 | 39.97 | 42.94 | 11.26 | 53.15 | 74.00 | -20.85 | Peak    | VERTICAL   |
| 15841.00         | 43.29 | 39.19 | 42.21 | 12.57 | 52.84 | 74.00 | -21.16 | Peak    | VERTICAL   |

|                  |       |       |       |       |       |       |        |         |            |
|------------------|-------|-------|-------|-------|-------|-------|--------|---------|------------|
| 17201.00         | 41.27 | 43.63 | 42.26 | 13.71 | 56.35 | 74.00 | -17.65 | Peak    | VERTICAL   |
| 17201.00         | 35.66 | 43.63 | 42.26 | 13.71 | 50.74 | 54.00 | -3.26  | Average | VERTICAL   |
| <b>11a CH157</b> |       |       |       |       |       |       |        |         |            |
| 6661.00          | 46.99 | 35.49 | 43.16 | 7.86  | 47.18 | 74.00 | -26.82 | Peak    | HORIZONTAL |
| 9041.00          | 44.48 | 38.34 | 41.82 | 9.53  | 50.53 | 74.00 | -23.47 | Peak    | HORIZONTAL |
| 10469.00         | 45.04 | 39.55 | 42.54 | 10.36 | 52.41 | 74.00 | -21.59 | Peak    | HORIZONTAL |
| 13189.00         | 44.87 | 40.12 | 42.90 | 11.32 | 53.41 | 74.00 | -20.59 | Peak    | HORIZONTAL |
| 15705.00         | 42.18 | 39.35 | 42.13 | 12.49 | 51.89 | 74.00 | -22.11 | Peak    | HORIZONTAL |
| 17150.00         | 41.73 | 43.24 | 42.25 | 13.76 | 56.48 | 74.00 | -17.52 | Peak    | HORIZONTAL |
| 17150.00         | 35.80 | 43.24 | 42.25 | 13.76 | 50.55 | 54.00 | -3.45  | Average | HORIZONTAL |
| 7494.00          | 46.11 | 37.09 | 42.64 | 8.83  | 49.39 | 74.00 | -24.61 | Peak    | VERTICAL   |
| 9636.00          | 45.21 | 38.80 | 42.06 | 9.83  | 51.78 | 74.00 | -22.22 | Peak    | VERTICAL   |
| 10996.00         | 44.88 | 39.80 | 42.90 | 10.57 | 52.35 | 74.00 | -21.65 | Peak    | VERTICAL   |
| 13121.00         | 44.86 | 39.97 | 42.94 | 11.26 | 53.15 | 74.00 | -20.85 | Peak    | VERTICAL   |
| 15841.00         | 43.29 | 39.19 | 42.21 | 12.57 | 52.84 | 74.00 | -21.16 | Peak    | VERTICAL   |
| 17031.00         | 42.16 | 42.34 | 42.21 | 13.87 | 56.16 | 74.00 | -17.84 | Peak    | VERTICAL   |
| 17031.00         | 35.63 | 42.34 | 42.21 | 13.87 | 49.63 | 54.00 | -4.37  | Average | VERTICAL   |
| <b>11a CH165</b> |       |       |       |       |       |       |        |         |            |
| 7154.00          | 46.37 | 36.55 | 42.89 | 8.24  | 48.27 | 74.00 | -25.73 | Peak    | HORIZONTAL |
| 8939.00          | 44.47 | 38.26 | 41.83 | 9.43  | 50.33 | 74.00 | -23.67 | Peak    | HORIZONTAL |
| 10469.00         | 45.04 | 39.55 | 42.54 | 10.36 | 52.41 | 74.00 | -21.59 | Peak    | HORIZONTAL |
| 13189.00         | 44.87 | 40.12 | 42.90 | 11.32 | 53.41 | 74.00 | -20.59 | Peak    | HORIZONTAL |
| 15671.00         | 43.26 | 39.39 | 42.11 | 12.47 | 53.01 | 74.00 | -20.99 | Peak    | HORIZONTAL |
| 17150.00         | 41.73 | 43.24 | 42.25 | 13.76 | 56.48 | 74.00 | -17.52 | Peak    | HORIZONTAL |
| 17150.00         | 35.10 | 43.24 | 42.25 | 13.76 | 49.85 | 54.00 | -4.15  | Average | HORIZONTAL |
| 6661.00          | 46.11 | 35.49 | 43.16 | 7.86  | 46.30 | 74.00 | -27.70 | Peak    | VERTICAL   |
| 8140.00          | 46.40 | 37.93 | 42.23 | 8.68  | 50.78 | 74.00 | -23.22 | Peak    | VERTICAL   |
| 10265.00         | 45.24 | 39.22 | 42.39 | 10.32 | 52.39 | 74.00 | -21.61 | Peak    | VERTICAL   |
| 12662.00         | 44.82 | 39.16 | 42.47 | 11.79 | 53.30 | 74.00 | -20.70 | Peak    | VERTICAL   |
| 15790.00         | 43.22 | 39.25 | 42.18 | 12.54 | 52.83 | 74.00 | -21.17 | Peak    | VERTICAL   |
| 17150.00         | 42.37 | 43.24 | 42.25 | 13.76 | 57.12 | 74.00 | -16.88 | Peak    | VERTICAL   |
| 17150.00         | 34.60 | 43.24 | 42.25 | 13.76 | 49.35 | 54.00 | -4.65  | Average | VERTICAL   |

Conclusion: Pass

Note:  $-27 \text{ dBm/MHz Limit} = 95.2 + \text{EIRP}[\text{dBm}] = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$

For transmitters operating in the 5150MHz-5250MHz, 5250MHz-5350MHz, 5470MHz-5725MHz, 5725MHz-5850MHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

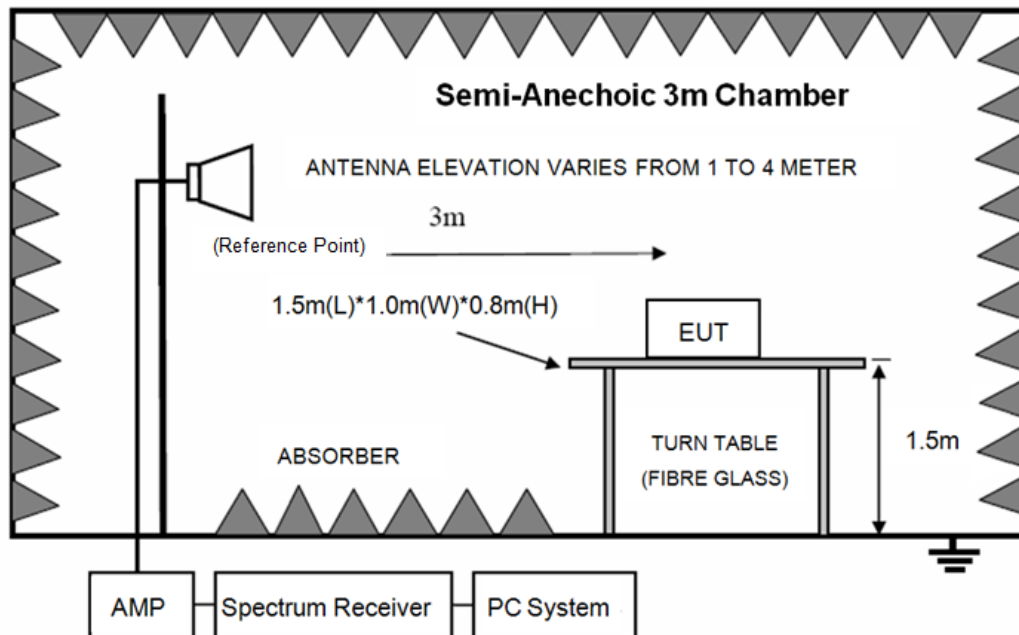
Note: 1. 30MHz~40GHz: (11a, 11n20, n40, 11ac20, 11ac40, 11ac80 mode all have been tested, only 11a mode is the worst case and reported.)

2. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 9. Band Edge Compliance

### 9.1. Block diagram of test setup



### 9.2. Limit

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.
  - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.
  - (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.
  - (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm / MHz.
  - (5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
  - (6) The provisions of §15.205 apply to intentional radiators operating under this section.
- 27 dBm/MHz Limit =  $95.2 + \text{EIRP [dBm]} = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$

### 9.3. Test procedure

Same with clause 8.3 except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

#### 9.4. Test result

**Pass. (See below detailed test result)**

Note: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

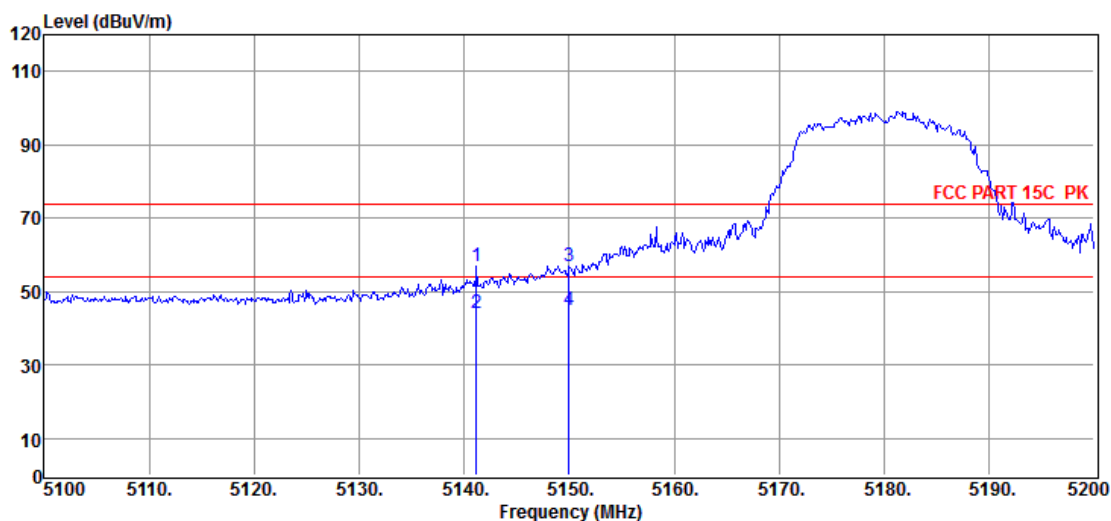
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11A 5180

Data: 18



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5141.20        | 60.25                   | 32.76                       | 43.25               | 7.06                | 56.82                       | 74.00                     | -17.18                | Peak     | HORIZONTAL   |
| 2              | 5141.20        | 47.61                   | 32.76                       | 43.25               | 7.06                | 44.18                       | 54.00                     | -9.82                 | Average  | HORIZONTAL   |
| 3              | 5150.00        | 60.52                   | 32.76                       | 43.25               | 7.06                | 57.09                       | 74.00                     | -16.91                | Peak     | HORIZONTAL   |
| 4              | 5150.00        | 48.33                   | 32.76                       | 43.25               | 7.06                | 44.90                       | 54.00                     | -9.10                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

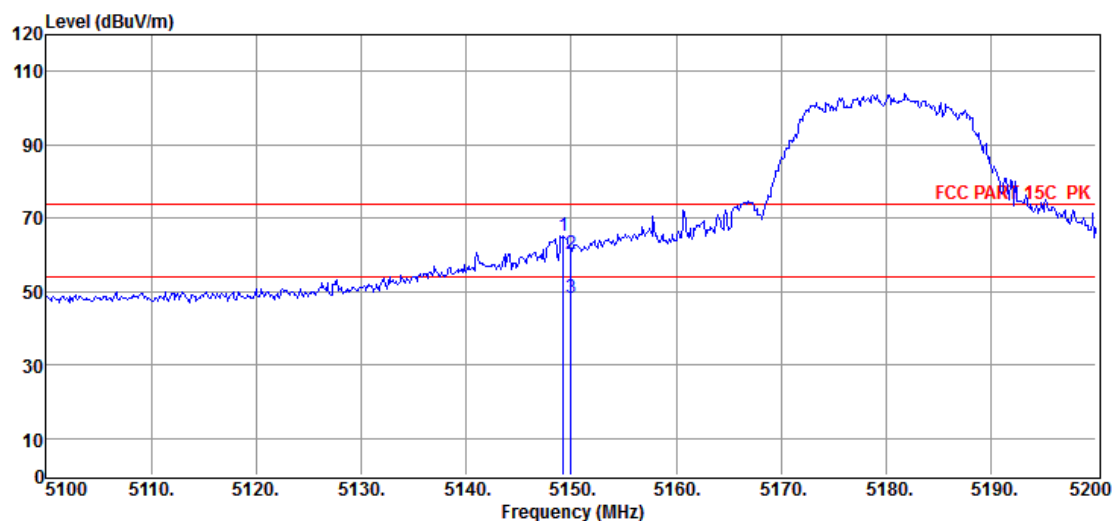
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11A 5180

Data: 19



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5149.30        | 68.75                   | 32.76                       | 43.25               | 7.06                | 65.32                       | 74.00                     | -8.68                 | Peak     | VERTICAL     |
| 2              | 5150.00        | 63.70                   | 32.76                       | 43.25               | 7.06                | 60.27                       | 74.00                     | -13.73                | Peak     | VERTICAL     |
| 3              | 5150.00        | 51.49                   | 32.76                       | 43.25               | 7.06                | 48.06                       | 54.00                     | -5.94                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

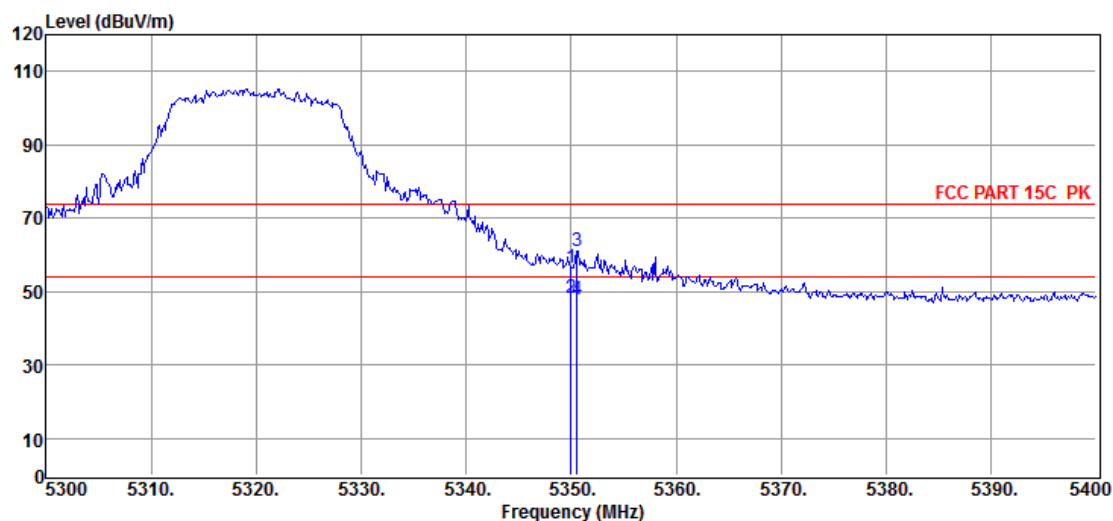
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11A 5320

Data: 20



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 60.00                   | 32.84                       | 43.31               | 7.10                | 56.63                       | 74.00                     | -17.37                | Peak     | VERTICAL     |
| 2              | 5350.00        | 51.64                   | 32.84                       | 43.31               | 7.10                | 48.27                       | 54.00                     | -5.73                 | Average  | VERTICAL     |
| 3              | 5350.60        | 64.34                   | 32.84                       | 43.31               | 7.10                | 60.97                       | 74.00                     | -13.03                | Peak     | VERTICAL     |
| 4              | 5350.60        | 51.41                   | 32.84                       | 43.31               | 7.10                | 48.04                       | 54.00                     | -5.96                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

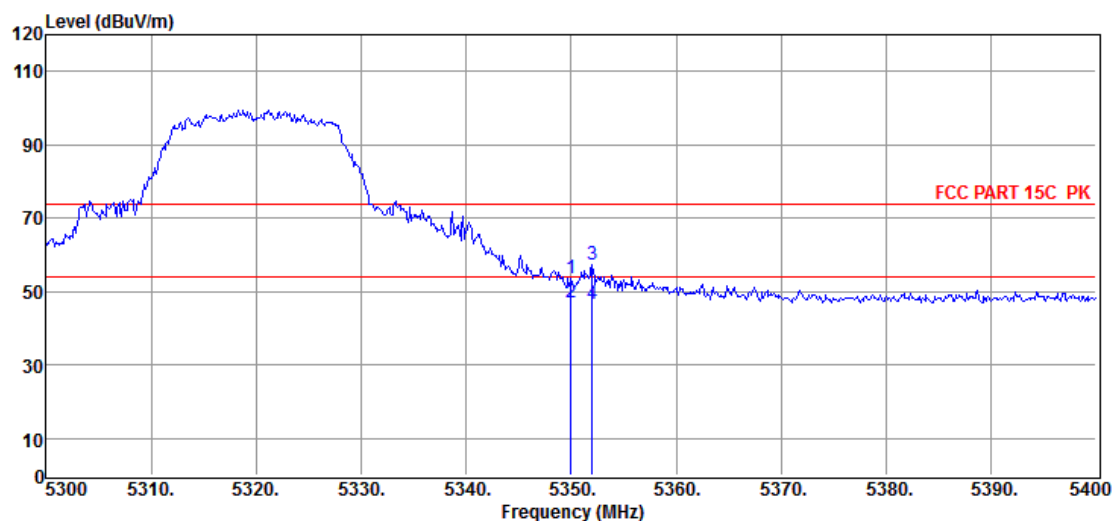
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11A 5320

Data: 21



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 57.09                   | 32.84                       | 43.31               | 7.10                | 53.72                       | 74.00                     | -20.28                | Peak     | HORIZONTAL   |
| 2              | 5350.00        | 50.42                   | 32.84                       | 43.31               | 7.10                | 47.05                       | 54.00                     | -6.95                 | Average  | HORIZONTAL   |
| 3              | 5352.00        | 60.65                   | 32.84                       | 43.31               | 7.10                | 57.28                       | 74.00                     | -16.72                | Peak     | HORIZONTAL   |
| 4              | 5352.00        | 49.83                   | 32.84                       | 43.31               | 7.10                | 46.46                       | 54.00                     | -7.54                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

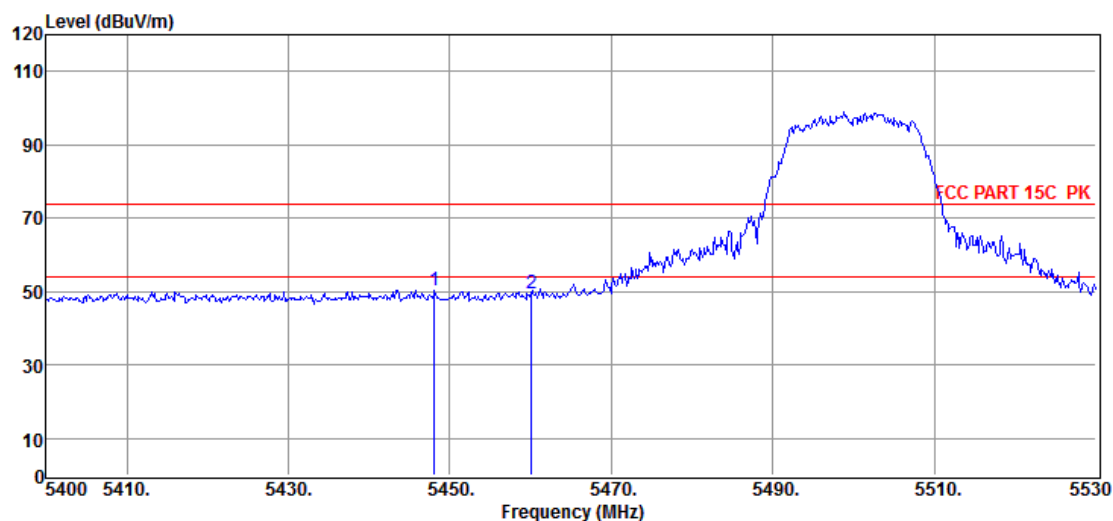
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11A 5500

Data: 22



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5448.10        | 53.79                   | 32.88                       | 43.34               | 7.11                | 50.44                       | 74.00                     | -23.56                | Peak     | HORIZONTAL   |
| 2              | 5460.06        | 52.69                   | 32.88                       | 43.34               | 7.11                | 49.34                       | 74.00                     | -24.66                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

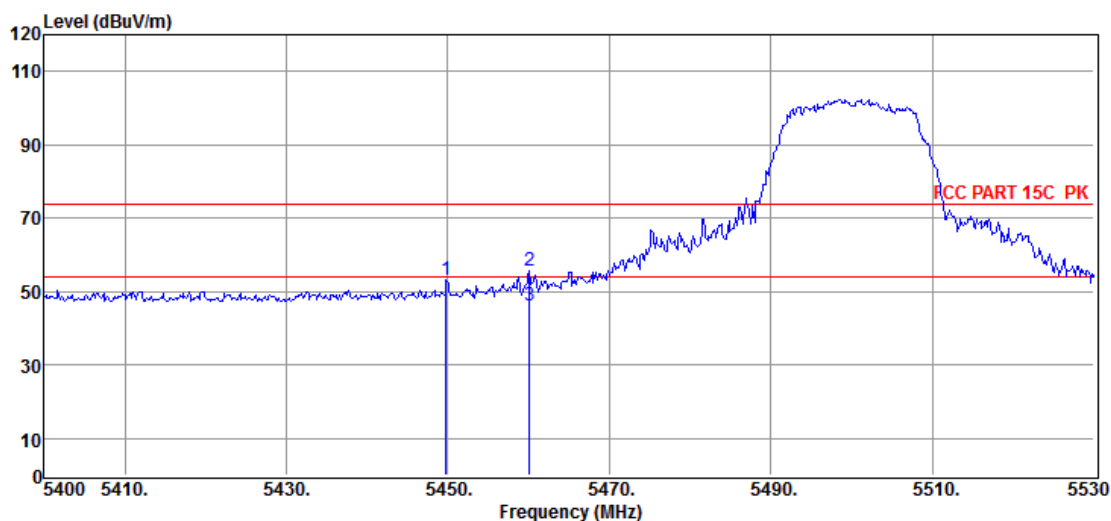
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11A 5500

Data: 23



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5449.79        | 56.36                   | 32.88                       | 43.34               | 7.11                | 53.01                       | 74.00                     | -20.99                | Peak     | VERTICAL     |
| 2              | 5460.06        | 59.08                   | 32.88                       | 43.34               | 7.11                | 55.73                       | 74.00                     | -18.27                | Peak     | VERTICAL     |
| 3              | 5460.06        | 49.63                   | 32.88                       | 43.34               | 7.11                | 46.28                       | 54.00                     | -7.72                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

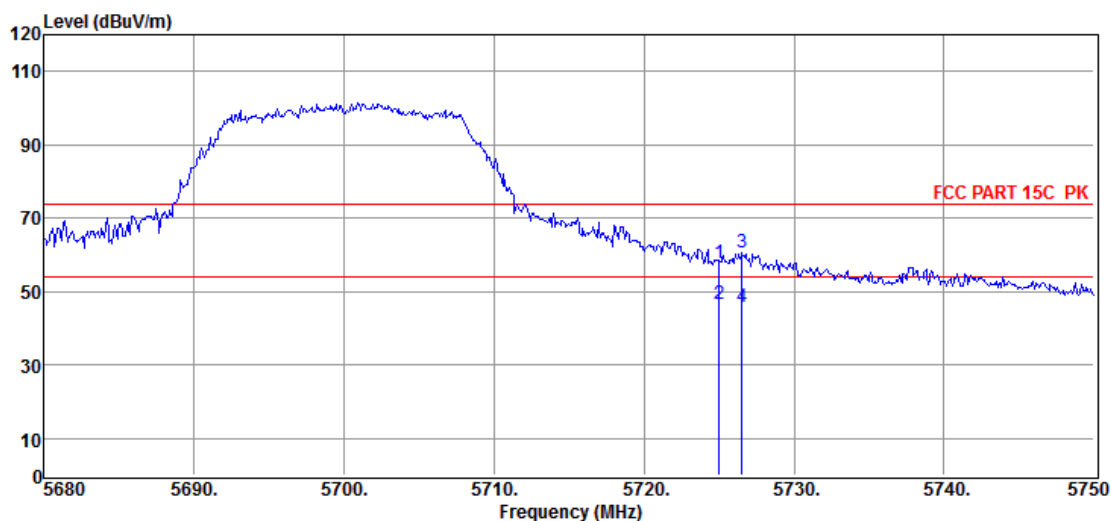
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11A 5700

Data: 24



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.01        | 60.85                   | 33.17                       | 43.42               | 7.24                | 57.84                       | 74.00                     | -16.16                | Peak     | VERTICAL     |
| 2              | 5725.01        | 49.52                   | 33.17                       | 43.42               | 7.24                | 46.51                       | 54.00                     | -7.49                 | Average  | VERTICAL     |
| 3              | 5726.55        | 63.64                   | 33.17                       | 43.42               | 7.25                | 60.64                       | 74.00                     | -13.36                | Peak     | VERTICAL     |
| 4              | 5726.55        | 48.72                   | 33.17                       | 43.42               | 7.25                | 45.72                       | 54.00                     | -8.28                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

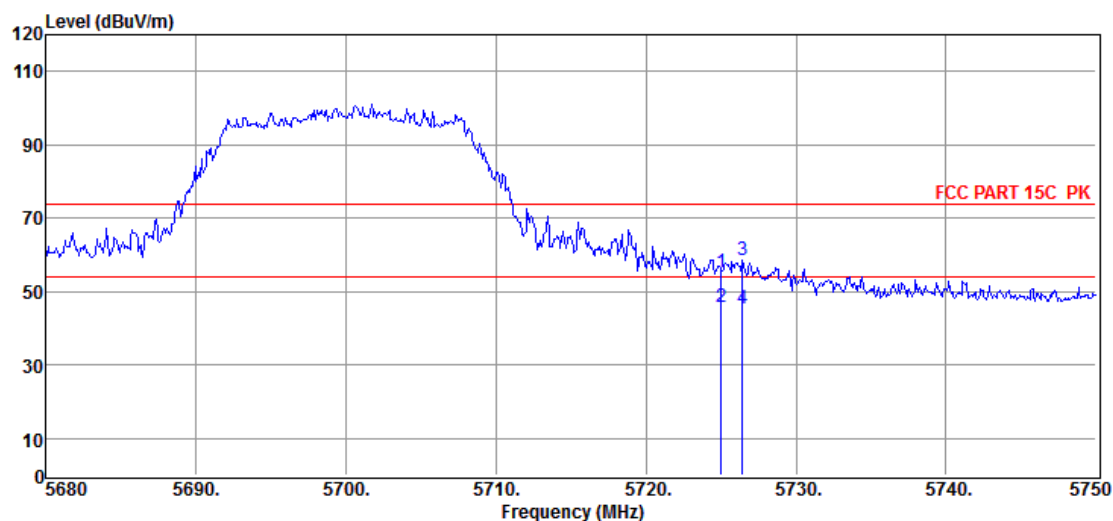
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11A 5700

Data: 25



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.01        | 58.19                   | 33.17                       | 43.42               | 7.24                | 55.18                       | 74.00                     | -18.82                | Peak     | HORIZONTAL   |
| 2              | 5725.01        | 48.96                   | 33.17                       | 43.42               | 7.24                | 45.95                       | 54.00                     | -8.05                 | Average  | HORIZONTAL   |
| 3              | 5726.41        | 61.73                   | 33.17                       | 43.42               | 7.25                | 58.73                       | 74.00                     | -15.27                | Peak     | HORIZONTAL   |
| 4              | 5726.41        | 48.21                   | 33.17                       | 43.42               | 7.25                | 45.21                       | 54.00                     | -8.79                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

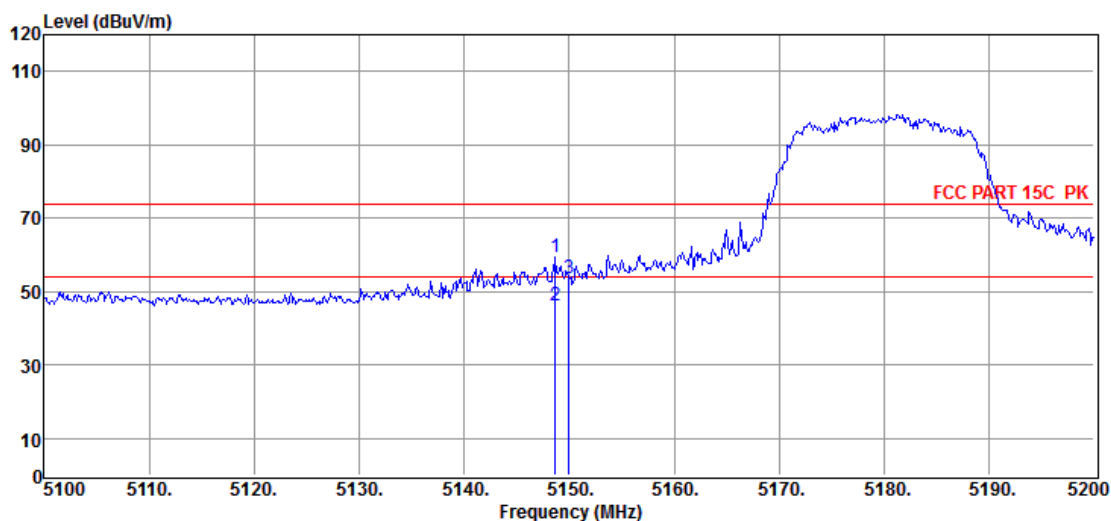
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N20 5180

Data: 26



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5148.70        | 62.92                   | 32.76                       | 43.25               | 7.06                | 59.49                       | 74.00                     | -14.51                | Peak     | HORIZONTAL   |
| 2              | 5148.70        | 49.79                   | 32.76                       | 43.25               | 7.06                | 46.36                       | 54.00                     | -7.64                 | Average  | HORIZONTAL   |
| 3              | 5150.00        | 56.92                   | 32.76                       | 43.25               | 7.06                | 53.49                       | 74.00                     | -20.51                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

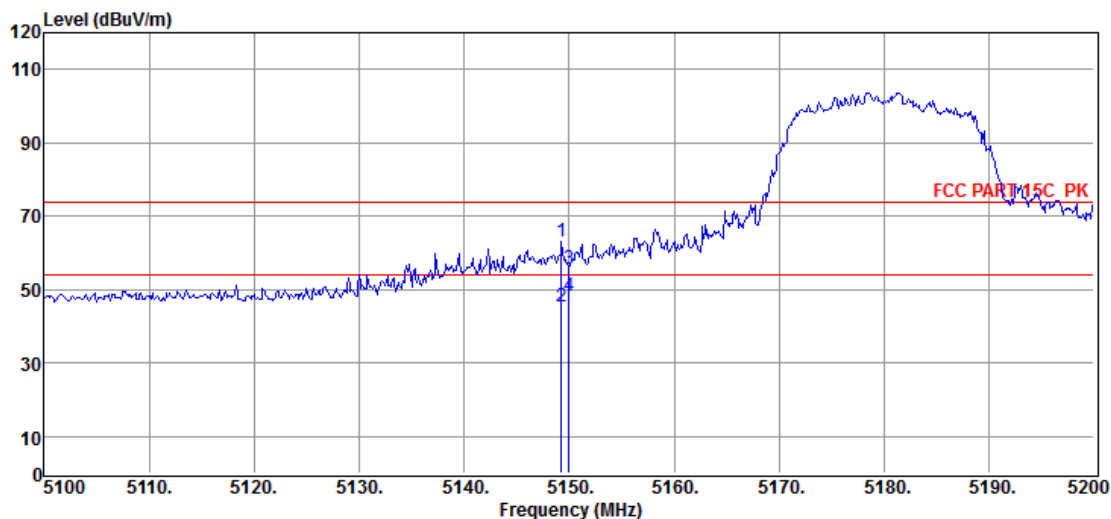
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11N20 5180

Data: 27



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5149.30        | 66.44                   | 32.76                       | 43.25               | 7.06                | 63.01                       | 74.00                     | -10.99                | Peak     | VERTICAL     |
| 2              | 5149.30        | 48.88                   | 32.76                       | 43.25               | 7.06                | 45.45                       | 54.00                     | -8.55                 | Average  | VERTICAL     |
| 3              | 5150.00        | 58.93                   | 32.76                       | 43.25               | 7.06                | 55.50                       | 74.00                     | -18.50                | Peak     | VERTICAL     |
| 4              | 5150.00        | 51.67                   | 32.76                       | 43.25               | 7.06                | 48.24                       | 54.00                     | -5.76                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

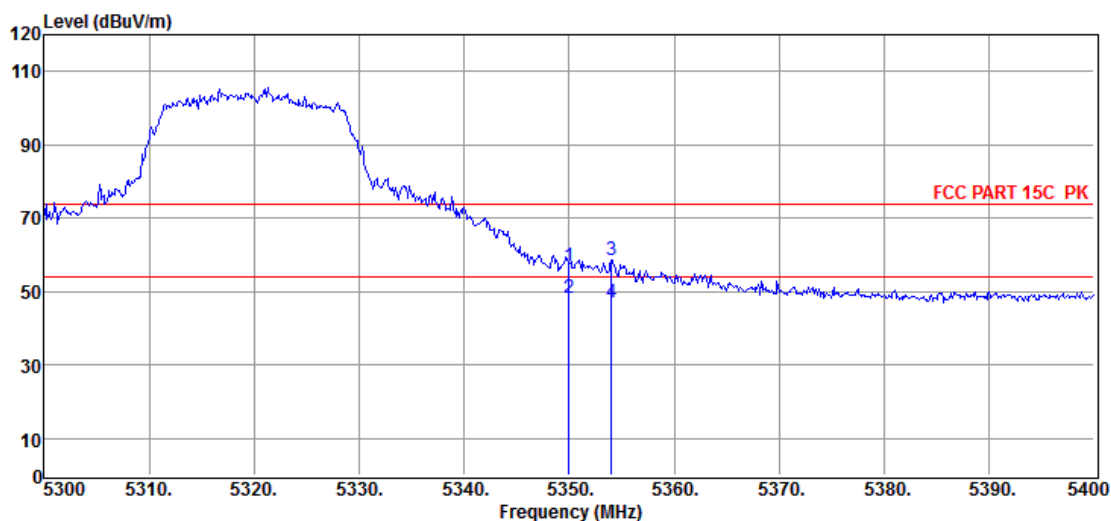
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N20 5320

Data: 28



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 60.34                   | 32.84                       | 43.31               | 7.10                | 56.97                       | 74.00                     | -17.03                | Peak     | VERTICAL     |
| 2              | 5350.00        | 51.77                   | 32.84                       | 43.31               | 7.10                | 48.40                       | 54.00                     | -5.60                 | Average  | VERTICAL     |
| 3              | 5354.00        | 61.98                   | 32.84                       | 43.31               | 7.10                | 58.61                       | 74.00                     | -15.39                | Peak     | VERTICAL     |
| 4              | 5354.00        | 50.20                   | 32.84                       | 43.31               | 7.10                | 46.83                       | 54.00                     | -7.17                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

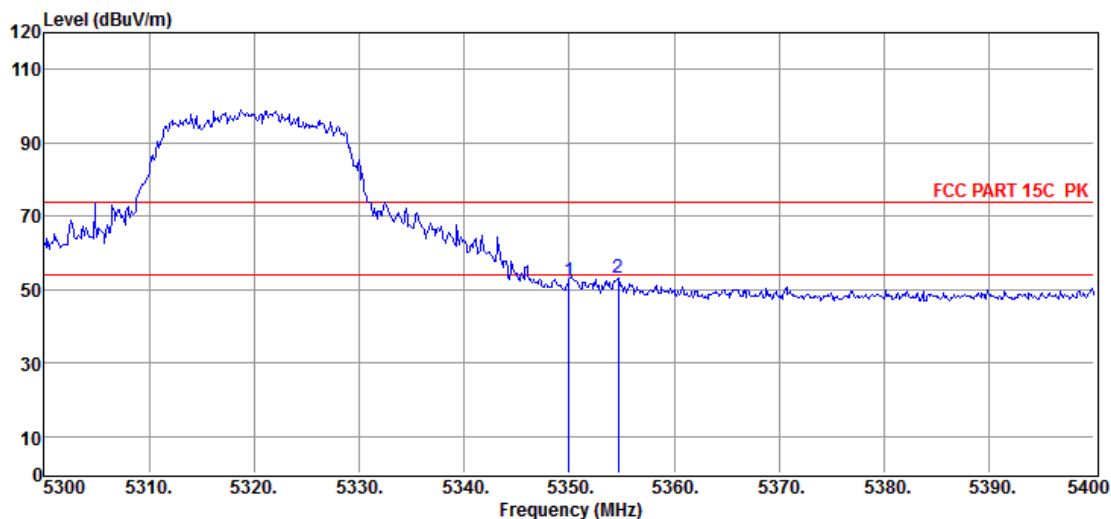
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11N20 5320

Data: 29



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 55.77                   | 32.84                       | 43.31               | 7.10                | 52.40                       | 74.00                     | -21.60                | Peak     | HORIZONTAL   |
| 2              | 5354.70        | 56.50                   | 32.84                       | 43.31               | 7.10                | 53.13                       | 74.00                     | -20.87                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

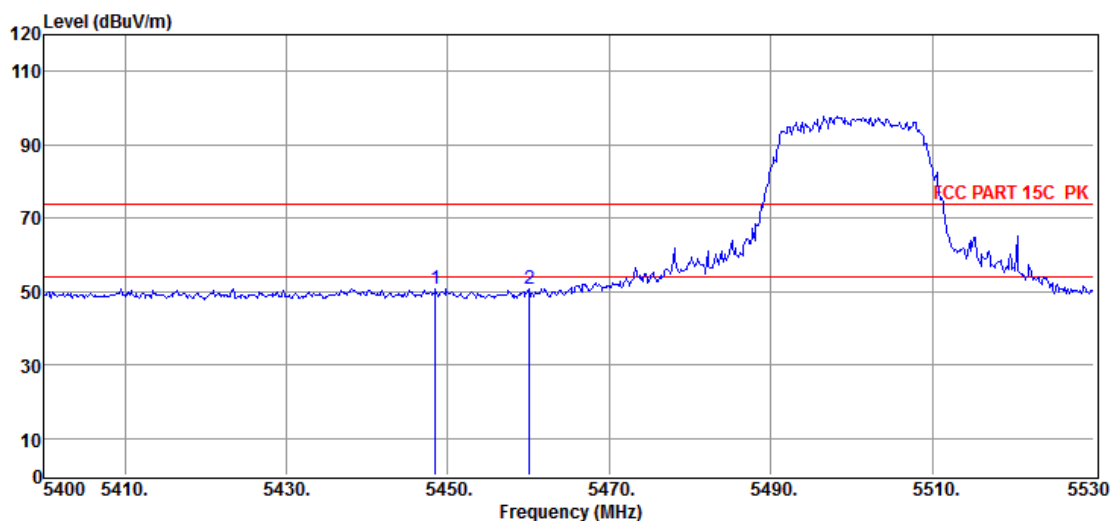
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N20 5500

Data: 30



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5448.49        | 54.10                   | 32.88                       | 43.34               | 7.11                | 50.75                       | 74.00                     | -23.25                | Peak     | HORIZONTAL   |
| 2              | 5460.06        | 53.93                   | 32.88                       | 43.34               | 7.11                | 50.58                       | 74.00                     | -23.42                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

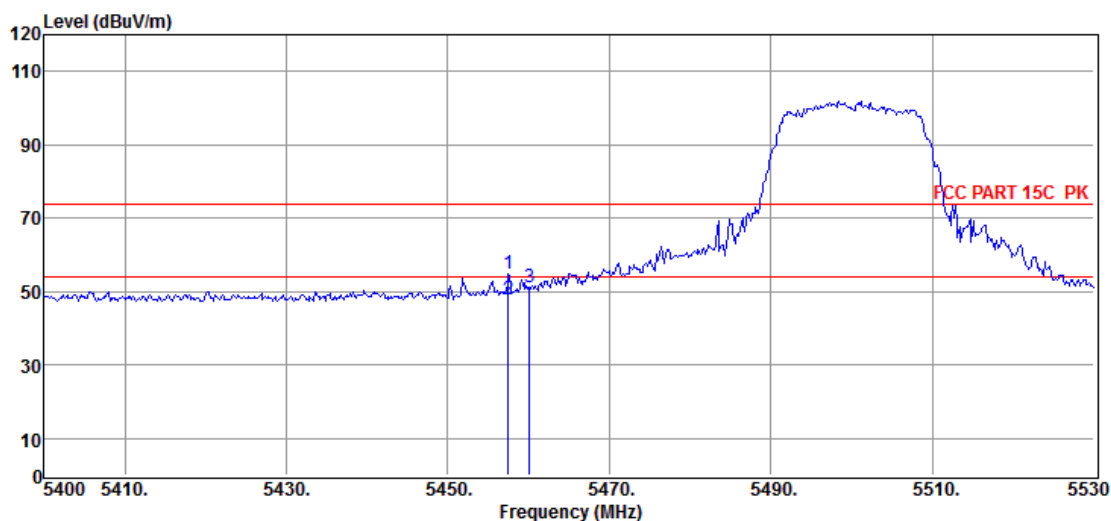
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N20 5500

Data: 31



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5457.46        | 57.99                   | 32.88                       | 43.34               | 7.11                | 54.64                       | 74.00                     | -19.36                | Peak     | VERTICAL     |
| 2              | 5457.46        | 51.30                   | 32.88                       | 43.34               | 7.11                | 47.95                       | 54.00                     | -6.05                 | Average  | VERTICAL     |
| 3              | 5460.06        | 54.57                   | 32.88                       | 43.34               | 7.11                | 51.22                       | 74.00                     | -22.78                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

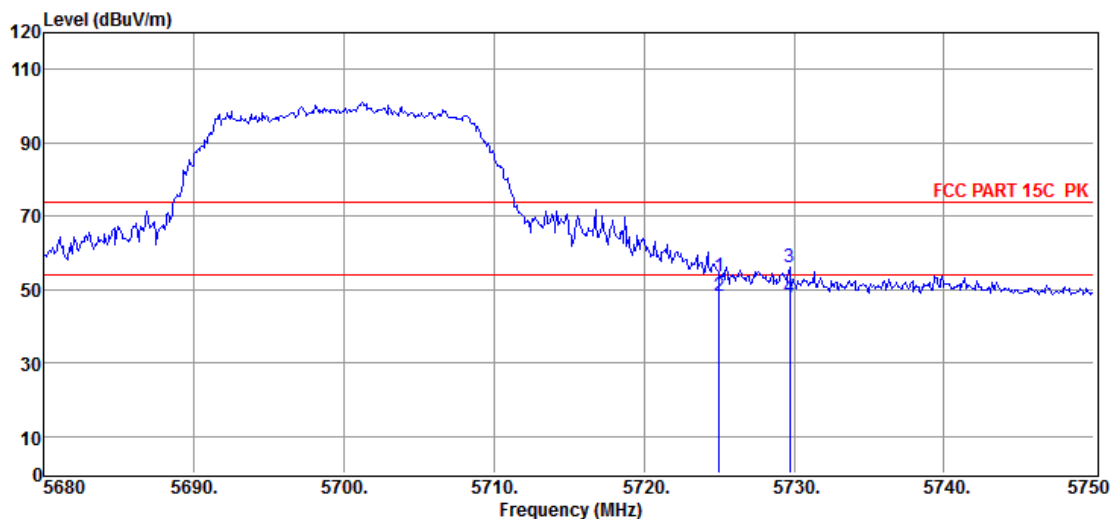
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11N20 5700

Data: 32



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.01        | 56.72                   | 33.17                       | 43.42               | 7.24                | 53.71                       | 74.00                     | -20.29                | Peak     | VERTICAL     |
| 2              | 5725.01        | 51.20                   | 33.17                       | 43.42               | 7.24                | 48.19                       | 54.00                     | -5.81                 | Average  | VERTICAL     |
| 3              | 5729.70        | 58.99                   | 33.18                       | 43.42               | 7.25                | 56.00                       | 74.00                     | -18.00                | Peak     | VERTICAL     |
| 4              | 5729.70        | 50.85                   | 33.18                       | 43.42               | 7.25                | 47.86                       | 54.00                     | -6.14                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

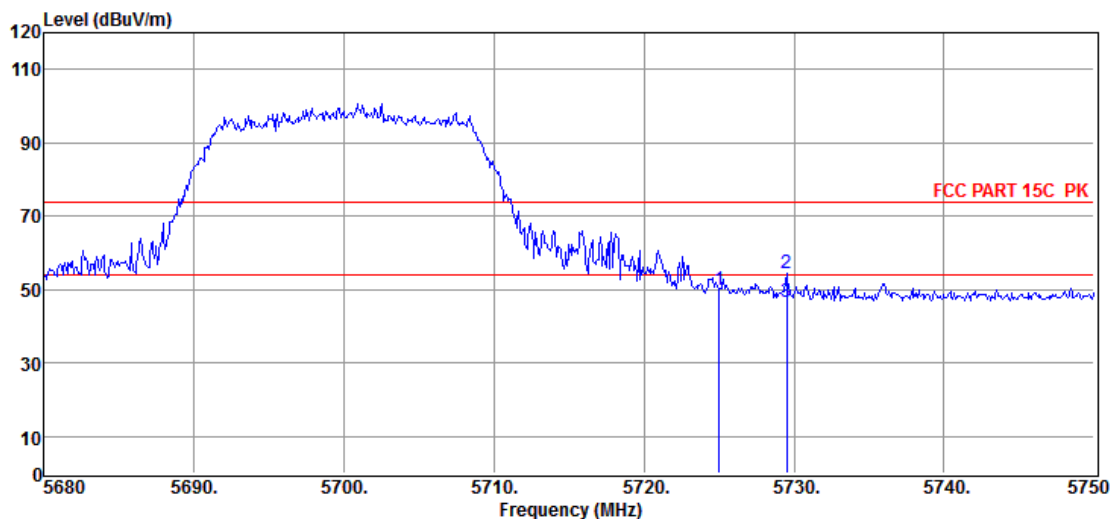
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N20 5700

Data: 33



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.01        | 52.81                   | 33.17                       | 43.42               | 7.24                | 49.80                       | 74.00                     | -24.20                | Peak     | HORIZONTAL   |
| 2              | 5729.49        | 57.30                   | 33.18                       | 43.42               | 7.25                | 54.31                       | 74.00                     | -19.69                | Peak     | HORIZONTAL   |
| 3              | 5729.49        | 49.65                   | 33.18                       | 43.42               | 7.25                | 46.66                       | 54.00                     | -7.34                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

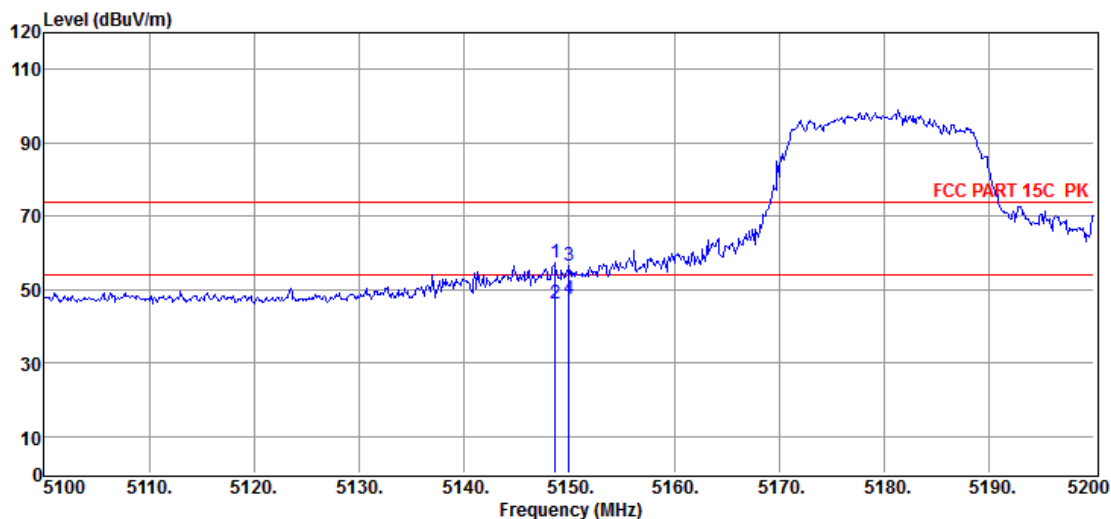
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC20 5180

Data: 34



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5148.70        | 60.60                   | 32.76                       | 43.25               | 7.06                | 57.17                       | 74.00                     | -16.83                | Peak     | HORIZONTAL   |
| 2              | 5148.70        | 49.73                   | 32.76                       | 43.25               | 7.06                | 46.30                       | 54.00                     | -7.70                 | Average  | HORIZONTAL   |
| 3              | 5150.00        | 59.95                   | 32.76                       | 43.25               | 7.06                | 56.52                       | 74.00                     | -17.48                | Peak     | HORIZONTAL   |
| 4              | 5150.00        | 50.68                   | 32.76                       | 43.25               | 7.06                | 47.25                       | 54.00                     | -6.75                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

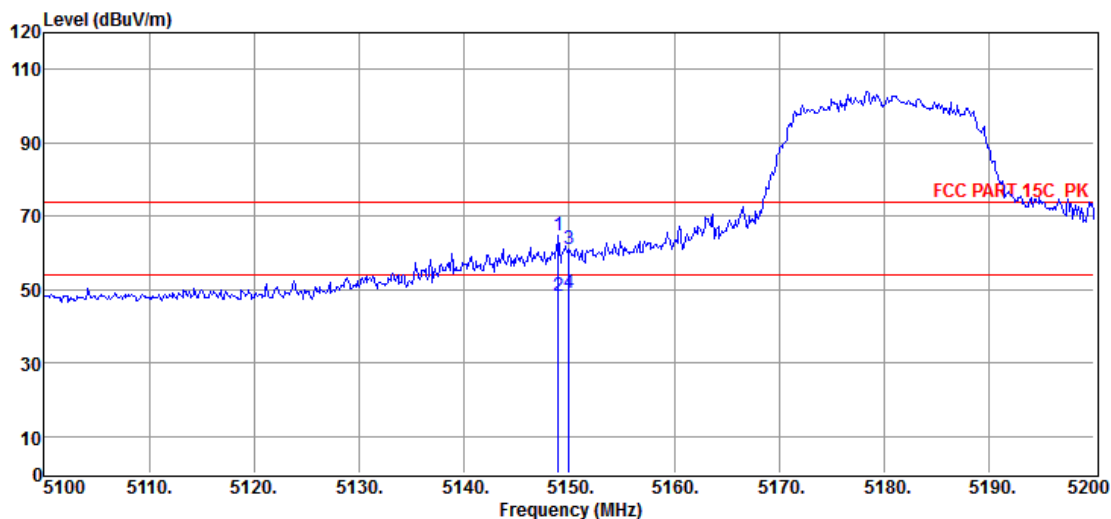
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11AC20 5180

Data: 35



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5149.00        | 68.06                   | 32.76                       | 43.25               | 7.06                | 64.63                       | 74.00                     | -9.37                 | Peak     | VERTICAL     |
| 2              | 5149.00        | 51.73                   | 32.76                       | 43.25               | 7.06                | 48.30                       | 54.00                     | -5.70                 | Average  | VERTICAL     |
| 3              | 5150.00        | 64.66                   | 32.76                       | 43.25               | 7.06                | 61.23                       | 74.00                     | -12.77                | Peak     | VERTICAL     |
| 4              | 5150.00        | 52.63                   | 32.76                       | 43.25               | 7.06                | 49.20                       | 54.00                     | -4.80                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

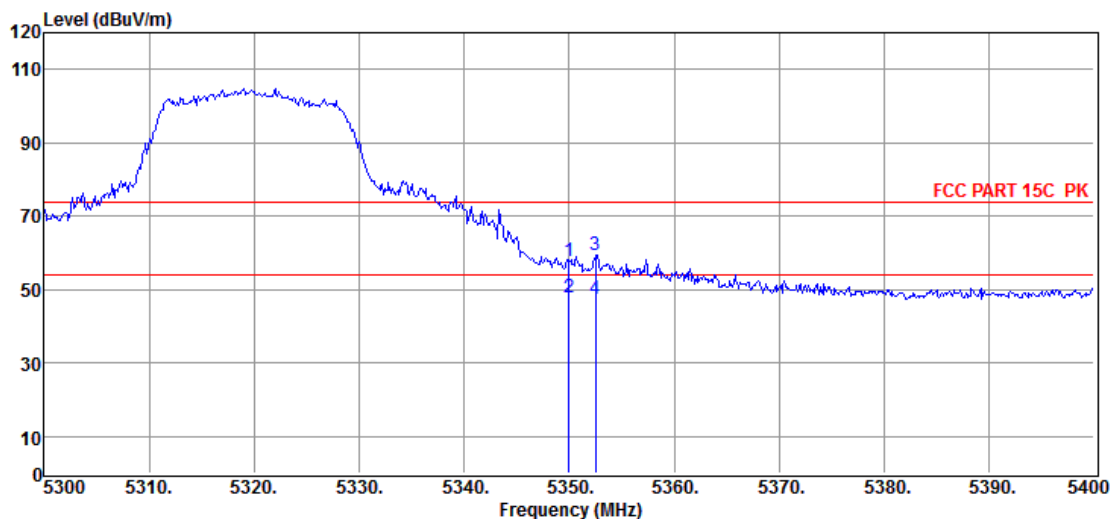
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11AC20 5320

Data: 36



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 61.09                   | 32.84                       | 43.31               | 7.10                | 57.72                       | 74.00                     | -16.28                | Peak     | VERTICAL     |
| 2              | 5350.00        | 51.13                   | 32.84                       | 43.31               | 7.10                | 47.76                       | 54.00                     | -6.24                 | Average  | VERTICAL     |
| 3              | 5352.50        | 62.83                   | 32.84                       | 43.31               | 7.10                | 59.46                       | 74.00                     | -14.54                | Peak     | VERTICAL     |
| 4              | 5352.50        | 50.78                   | 32.84                       | 43.31               | 7.10                | 47.41                       | 54.00                     | -6.59                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

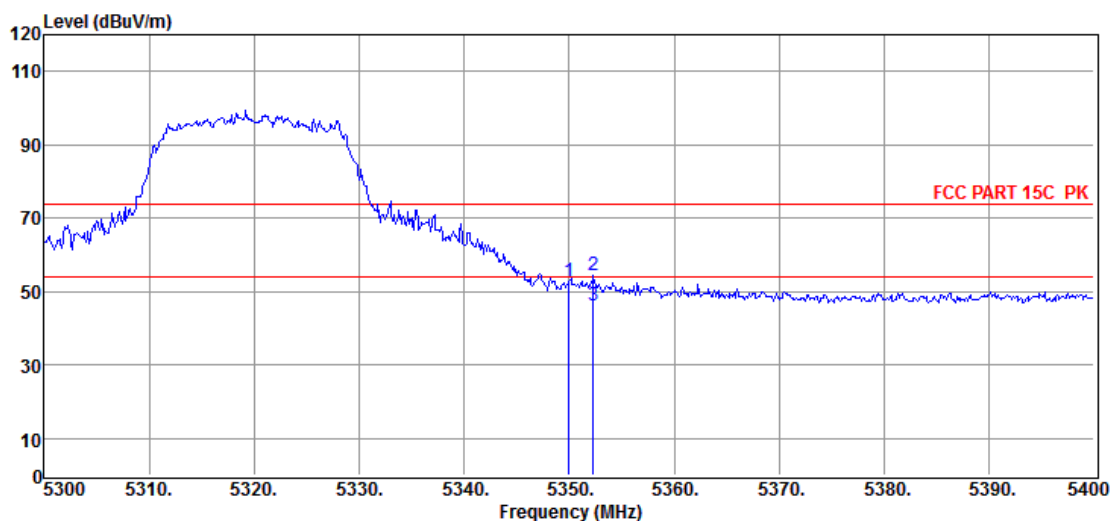
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11AC20 5320

Data: 37



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 56.30                   | 32.84                       | 43.31               | 7.10                | 52.93                       | 74.00                     | -21.07                | Peak     | HORIZONTAL   |
| 2              | 5352.30        | 57.80                   | 32.84                       | 43.31               | 7.10                | 54.43                       | 74.00                     | -19.57                | Peak     | HORIZONTAL   |
| 3              | 5352.30        | 49.40                   | 32.84                       | 43.31               | 7.10                | 46.03                       | 54.00                     | -7.97                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50ARF\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

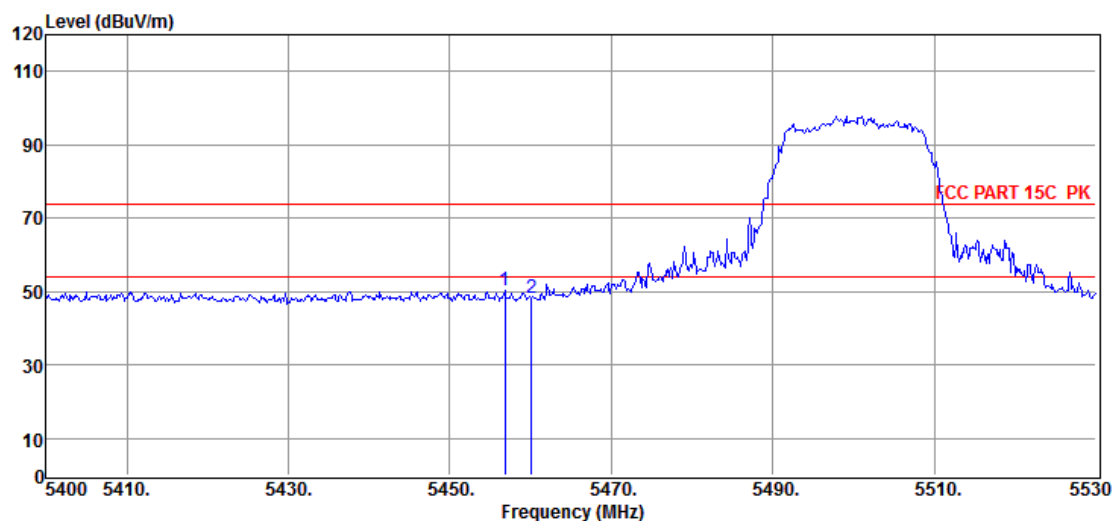
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC20 5500

Data: 38



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5456.81        | 53.55                   | 32.88                       | 43.34               | 7.11                | 50.20                       | 74.00                     | -23.80                | Peak     | HORIZONTAL   |
| 2              | 5460.06        | 51.79                   | 32.88                       | 43.34               | 7.11                | 48.44                       | 74.00                     | -25.56                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

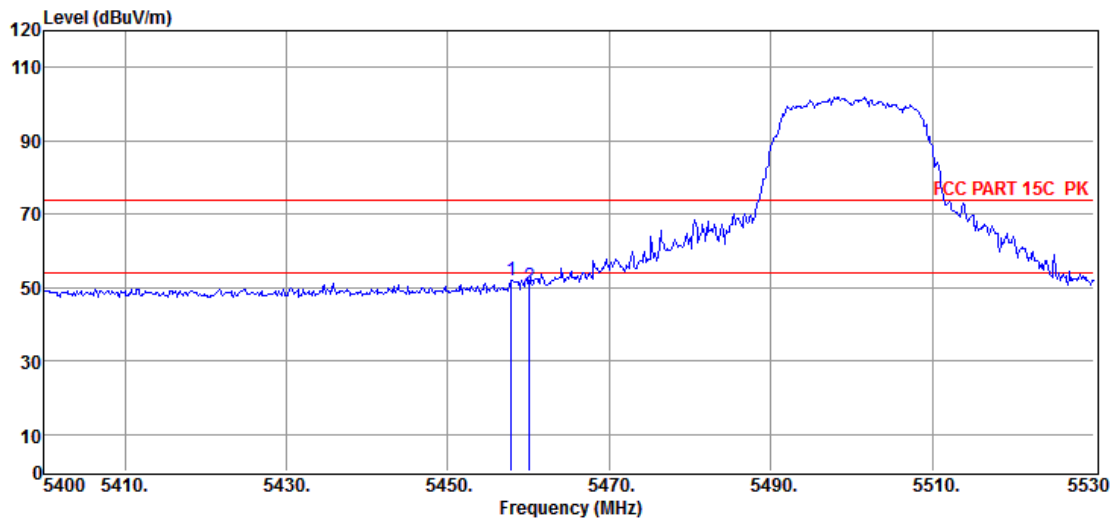
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11AC20 5500

Data: 39



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5457.85        | 55.44                   | 32.88                       | 43.34               | 7.11                | 52.09                       | 74.00                     | -21.91                | Peak     | VERTICAL     |
| 2              | 5460.06        | 53.71                   | 32.88                       | 43.34               | 7.11                | 50.36                       | 74.00                     | -23.64                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-29

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

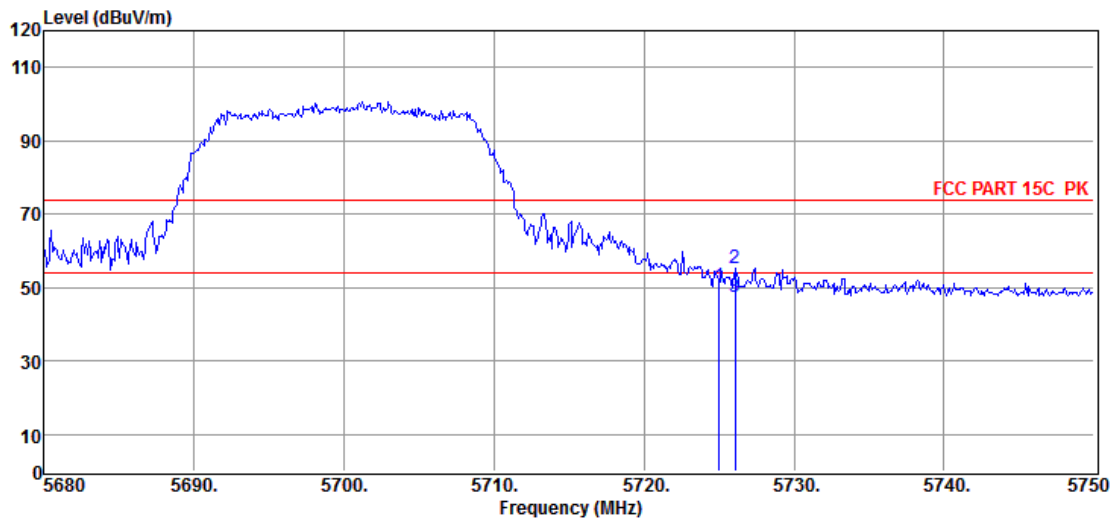
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11AC20 5700

Data: 40



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.01        | 53.52                   | 33.17                       | 43.42               | 7.24                | 50.51                       | 74.00                     | -23.49                | Peak     | VERTICAL     |
| 2              | 5726.06        | 58.30                   | 33.17                       | 43.42               | 7.24                | 55.29                       | 74.00                     | -18.71                | Peak     | VERTICAL     |
| 3              | 5726.06        | 50.26                   | 33.17                       | 43.42               | 7.24                | 47.25                       | 54.00                     | -6.75                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

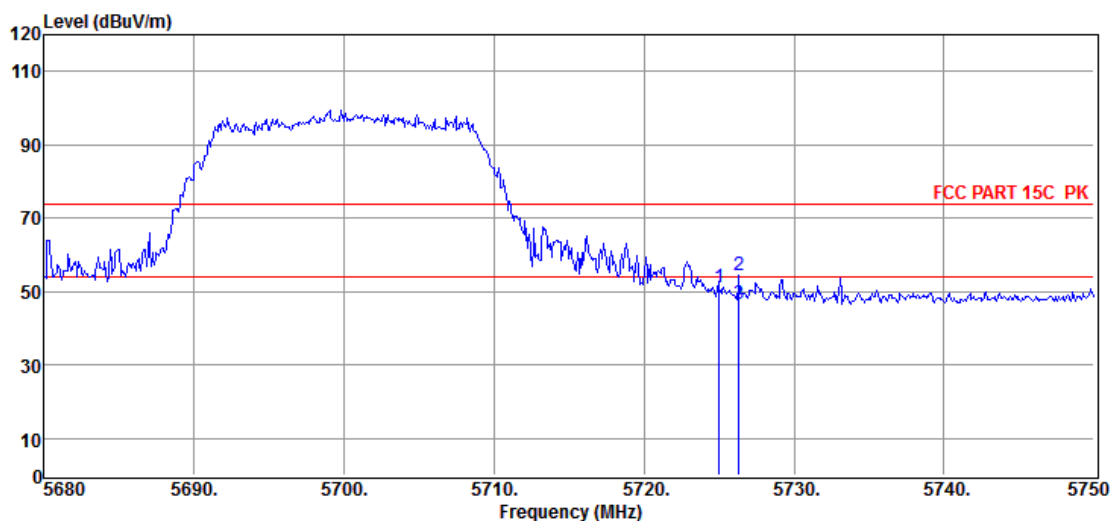
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11AC20 5700

Data: 41



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.01        | 54.30                   | 33.17                       | 43.42               | 7.24                | 51.29                       | 74.00                     | -22.71                | Peak     | HORIZONTAL   |
| 2              | 5726.34        | 57.39                   | 33.17                       | 43.42               | 7.25                | 54.39                       | 74.00                     | -19.61                | Peak     | HORIZONTAL   |
| 3              | 5726.34        | 49.59                   | 33.17                       | 43.42               | 7.25                | 46.59                       | 54.00                     | -7.41                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

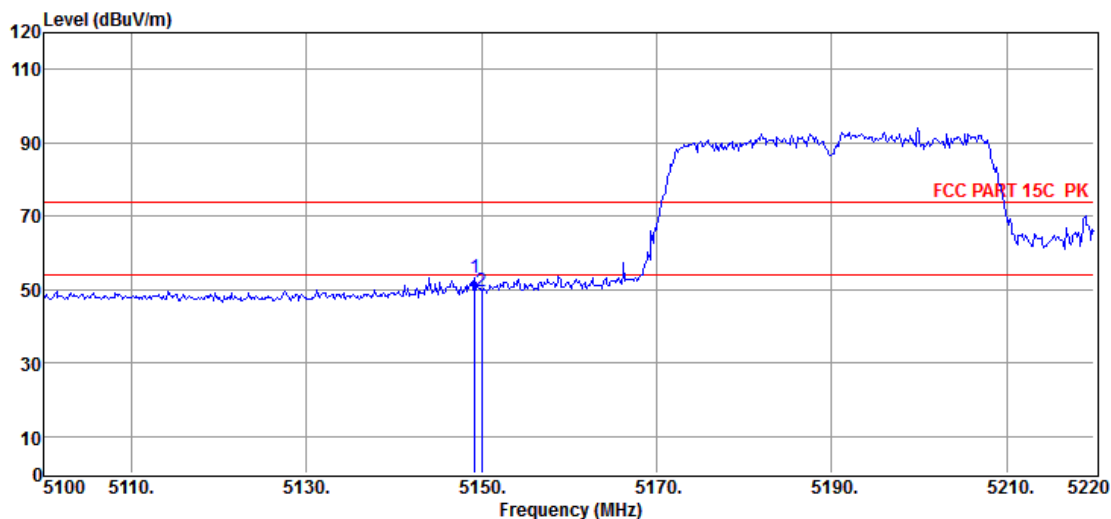
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N40 5190

Data: 42



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5149.20        | 56.73                   | 32.76                       | 43.25               | 7.06                | 53.30                       | 74.00                     | -20.70                | Peak     | HORIZONTAL   |
| 2              | 5150.04        | 53.02                   | 32.76                       | 43.25               | 7.06                | 49.59                       | 74.00                     | -24.41                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

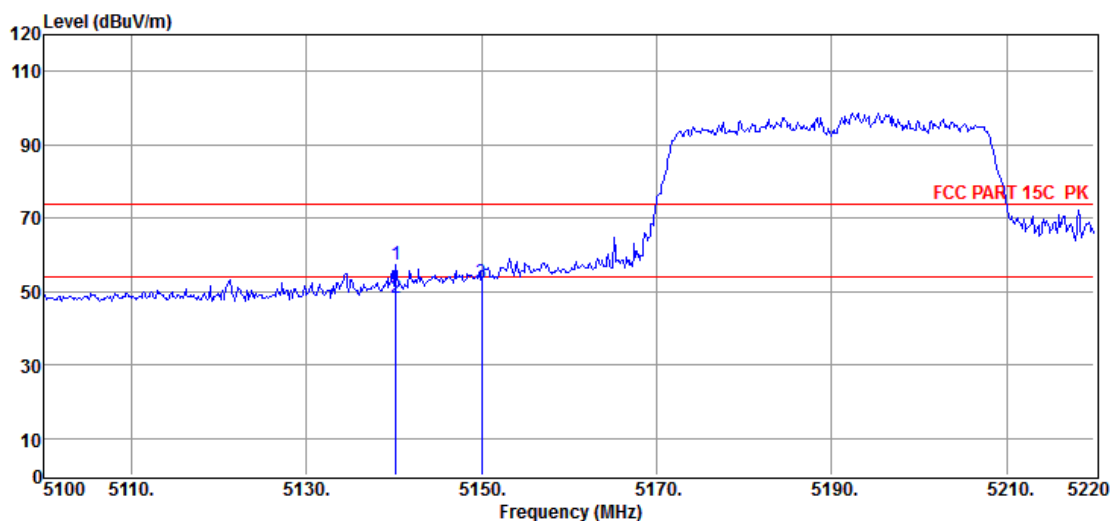
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N40 5190

Data: 43



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5140.20        | 60.90                   | 32.76                       | 43.25               | 7.06                | 57.47                       | 74.00                     | -16.53                | Peak     | VERTICAL     |
| 2              | 5140.20        | 51.69                   | 32.76                       | 43.25               | 7.06                | 48.26                       | 54.00                     | -5.74                 | Average  | VERTICAL     |
| 3              | 5150.04        | 55.67                   | 32.76                       | 43.25               | 7.06                | 52.24                       | 74.00                     | -21.76                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-29

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

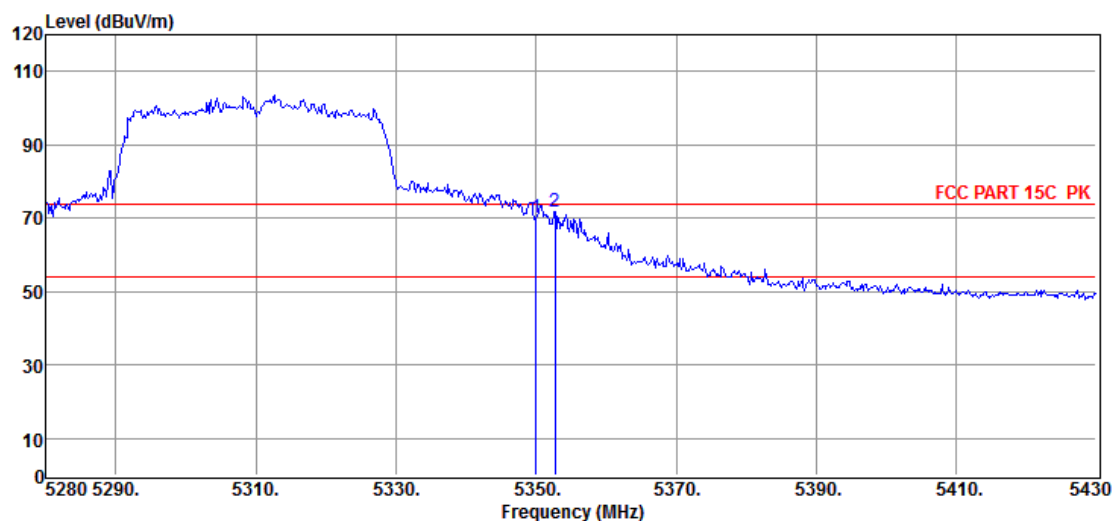
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N40 5310

Data: 44



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.05        | 73.31                   | 32.84                       | 43.31               | 7.10                | 69.94                       | 74.00                     | -4.06                 | Peak     | VERTICAL     |
| 2              | 5352.75        | 75.08                   | 32.84                       | 43.31               | 7.10                | 71.71                       | 74.00                     | -2.29                 | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

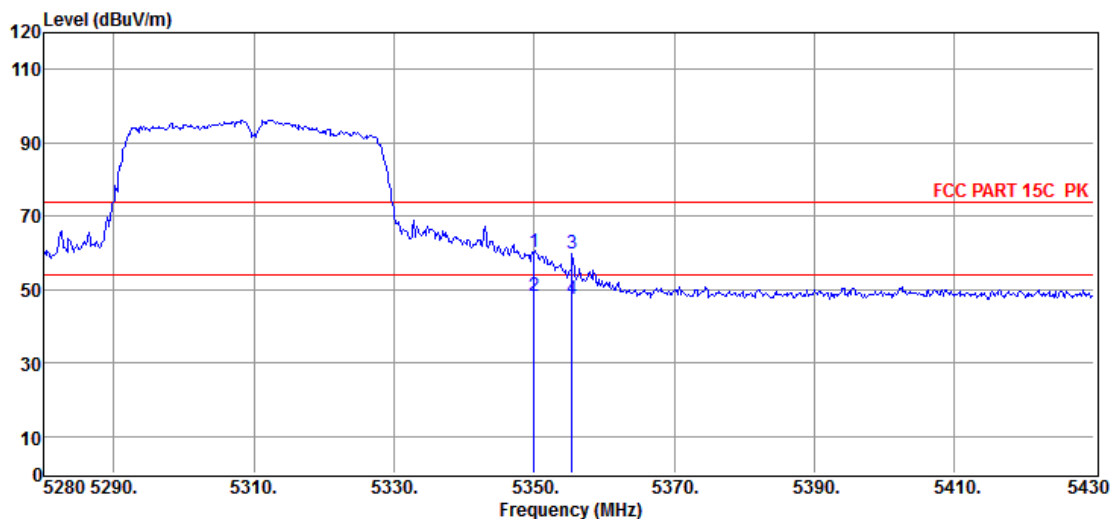
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11N40 5310 POWER 66

Data: 45



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.05        | 63.43                   | 32.84                       | 43.31               | 7.10                | 60.06                       | 74.00                     | -13.94                | Peak     | VERTICAL     |
| 2              | 5350.05        | 51.76                   | 32.84                       | 43.31               | 7.10                | 48.39                       | 54.00                     | -5.61                 | Average  | VERTICAL     |
| 3              | 5355.45        | 63.26                   | 32.84                       | 43.31               | 7.10                | 59.89                       | 74.00                     | -14.11                | Peak     | VERTICAL     |
| 4              | 5355.45        | 50.68                   | 32.84                       | 43.31               | 7.10                | 47.31                       | 54.00                     | -6.69                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

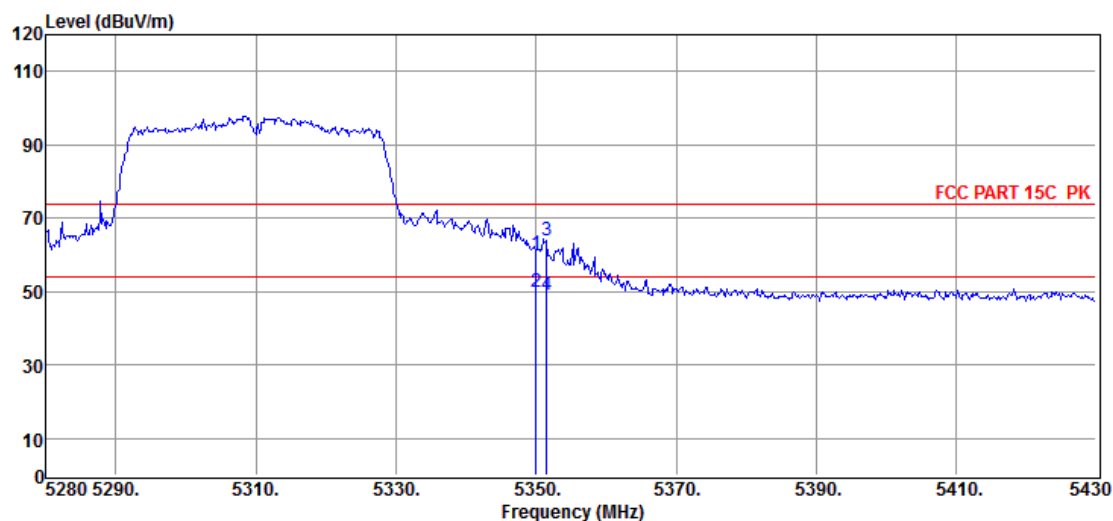
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N40 5310 POWER 70

Data: 46



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBuV/m) | Limit<br>Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.00        | 63.59                   | 32.84                       | 43.31               | 7.10                | 60.22                       | 74.00                     | -13.78                | Peak     | VERTICAL     |
| 2              | 5350.00        | 53.29                   | 32.84                       | 43.31               | 7.10                | 49.92                       | 54.00                     | -4.08                 | Average  | VERTICAL     |
| 3              | 5351.55        | 67.47                   | 32.84                       | 43.31               | 7.10                | 64.10                       | 74.00                     | -9.90                 | Peak     | VERTICAL     |
| 4              | 5351.55        | 52.50                   | 32.84                       | 43.31               | 7.10                | 49.13                       | 54.00                     | -4.87                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

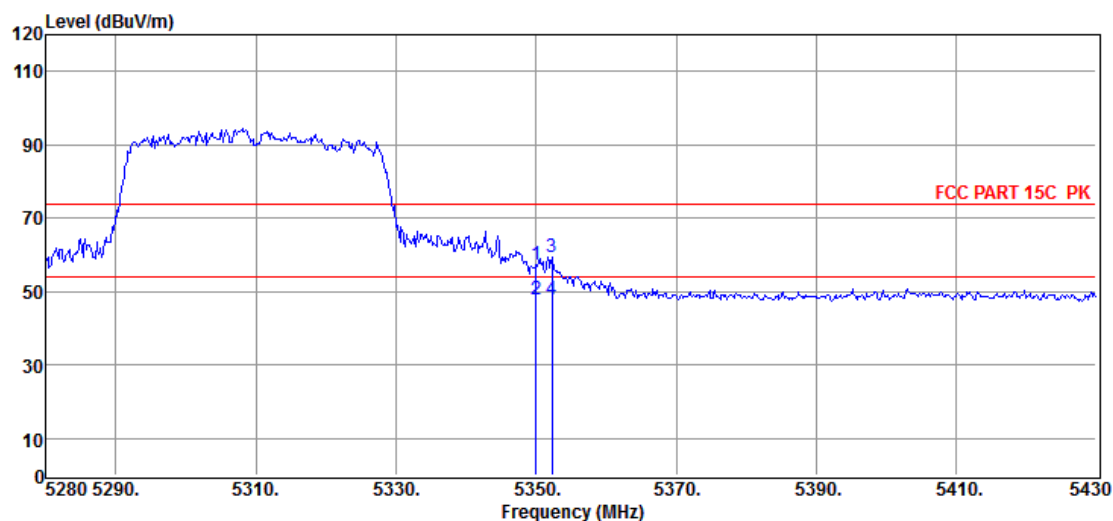
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N40 5310 POWER 70

Data: 47



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBuV/m) | Limit<br>Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.05        | 60.50                   | 32.84                       | 43.31               | 7.10                | 57.13                       | 74.00                     | -16.87                | Peak     | HORIZONTAL   |
| 2              | 5350.05        | 51.36                   | 32.84                       | 43.31               | 7.10                | 47.99                       | 54.00                     | -6.01                 | Average  | HORIZONTAL   |
| 3              | 5352.30        | 62.95                   | 32.84                       | 43.31               | 7.10                | 59.58                       | 74.00                     | -14.42                | Peak     | HORIZONTAL   |
| 4              | 5352.30        | 51.10                   | 32.84                       | 43.31               | 7.10                | 47.73                       | 54.00                     | -6.27                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

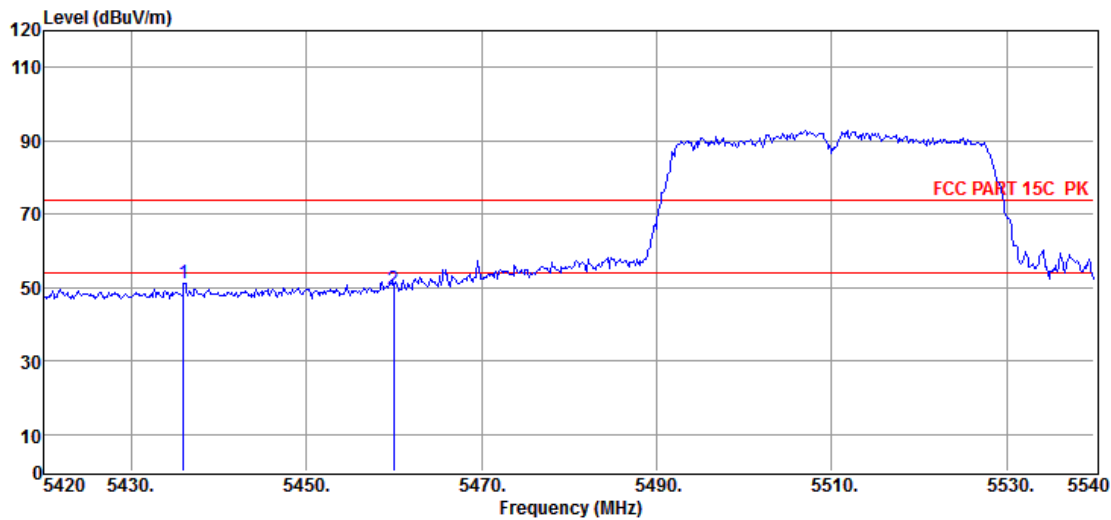
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N40 5510

Data: 48



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5435.96        | 54.62                   | 32.87                       | 43.34               | 7.11                | 51.26                       | 74.00                     | -22.74                | Peak     | HORIZONTAL   |
| 2              | 5459.96        | 52.81                   | 32.88                       | 43.34               | 7.11                | 49.46                       | 74.00                     | -24.54                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

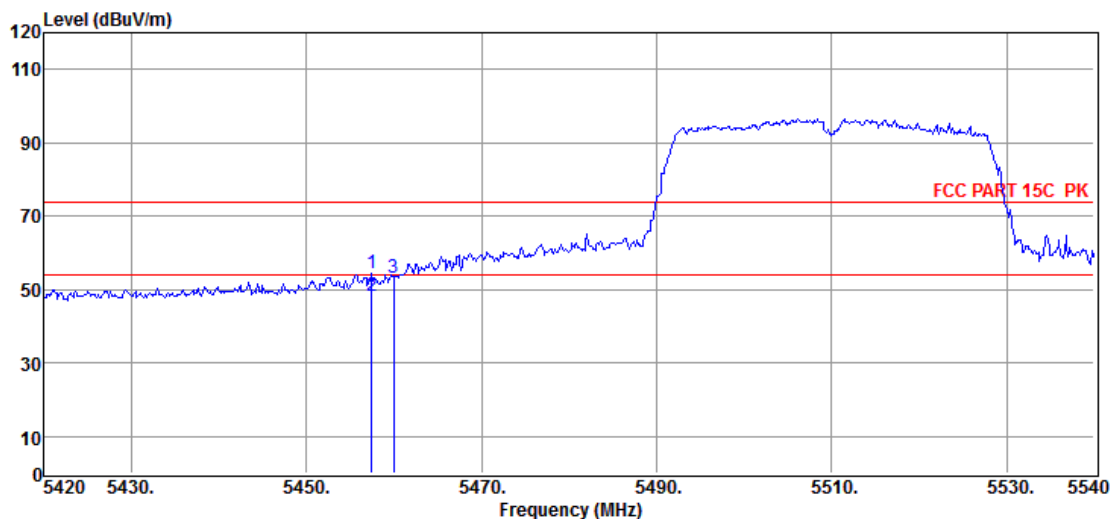
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N40 5510

Data: 49



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBuV/m) | Limit<br>Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5457.44        | 57.65                   | 32.88                       | 43.34               | 7.11                | 54.30                       | 74.00                     | -19.70                | Peak     | VERTICAL     |
| 2              | 5457.44        | 51.62                   | 32.88                       | 43.34               | 7.11                | 48.27                       | 54.00                     | -5.73                 | Average  | VERTICAL     |
| 3              | 5459.96        | 56.66                   | 32.88                       | 43.34               | 7.11                | 53.31                       | 74.00                     | -20.69                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

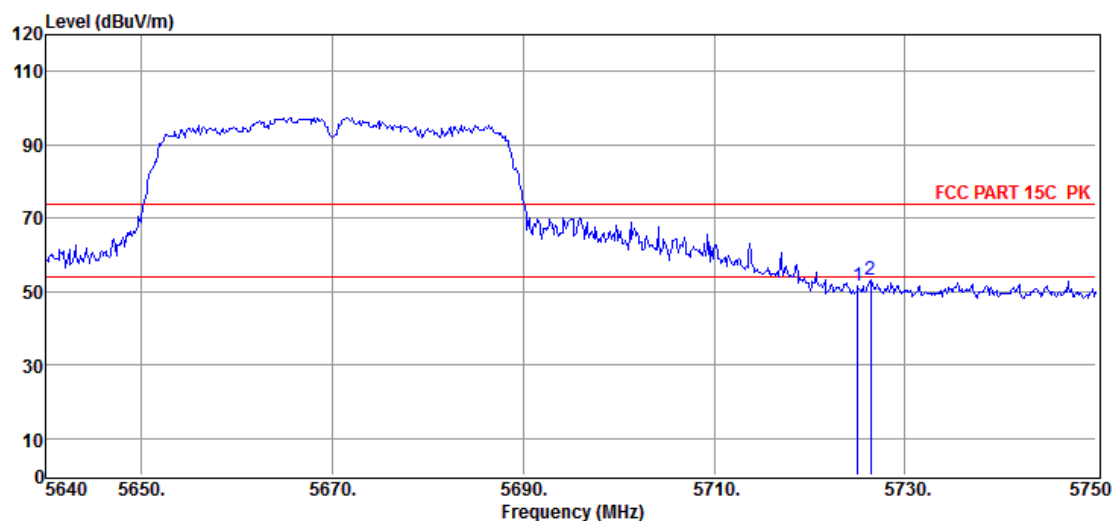
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11N40 5670

Data: 50



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.03        | 54.38                   | 33.17                       | 43.42               | 7.24                | 51.37                       | 74.00                     | -22.63                | Peak     | VERTICAL     |
| 2              | 5726.35        | 56.01                   | 33.17                       | 43.42               | 7.25                | 53.01                       | 74.00                     | -20.99                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50ARF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

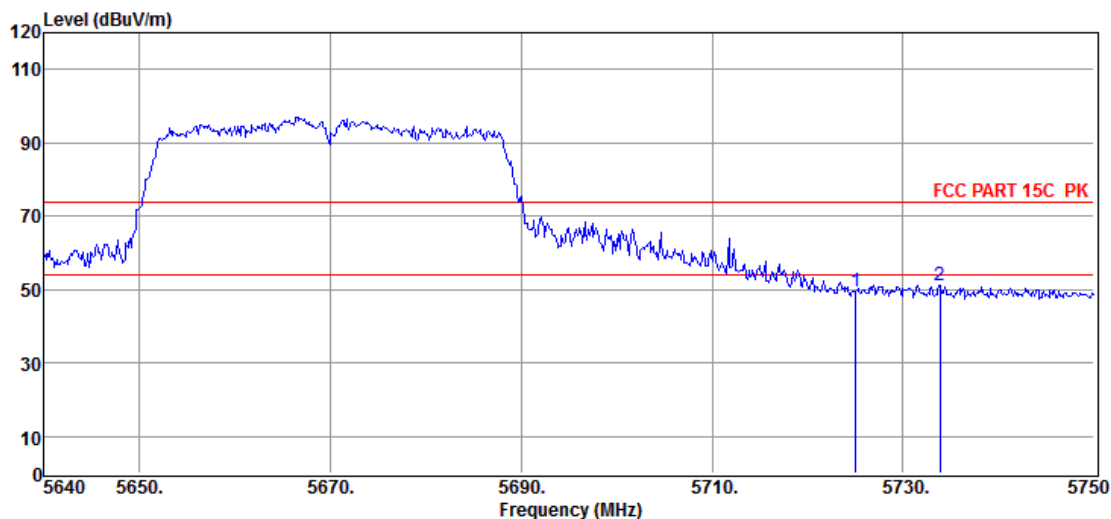
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11N40 5670

Data: 51



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.03        | 52.33                   | 33.17                       | 43.42               | 7.24                | 49.32                       | 74.00                     | -24.68                | Peak     | HORIZONTAL   |
| 2              | 5733.83        | 54.26                   | 33.18                       | 43.43               | 7.25                | 51.26                       | 74.00                     | -22.74                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

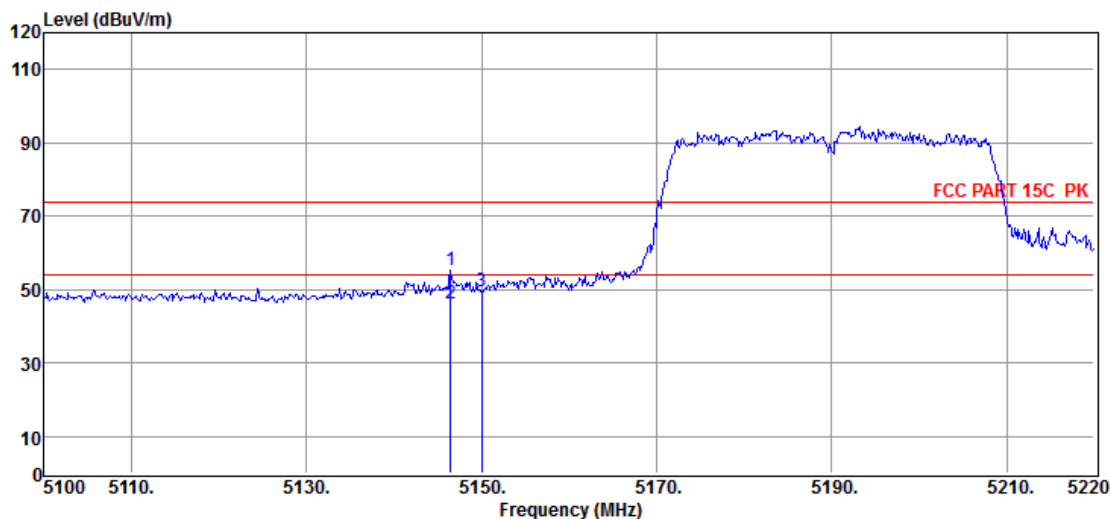
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC40 5190

Data: 52



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5146.44        | 58.52                   | 32.76                       | 43.25               | 7.06                | 55.09                       | 74.00                     | -18.91                | Peak     | HORIZONTAL   |
| 2              | 5146.44        | 49.63                   | 32.76                       | 43.25               | 7.06                | 46.20                       | 54.00                     | -7.80                 | Average  | HORIZONTAL   |
| 3              | 5150.04        | 52.90                   | 32.76                       | 43.25               | 7.06                | 49.47                       | 74.00                     | -24.53                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

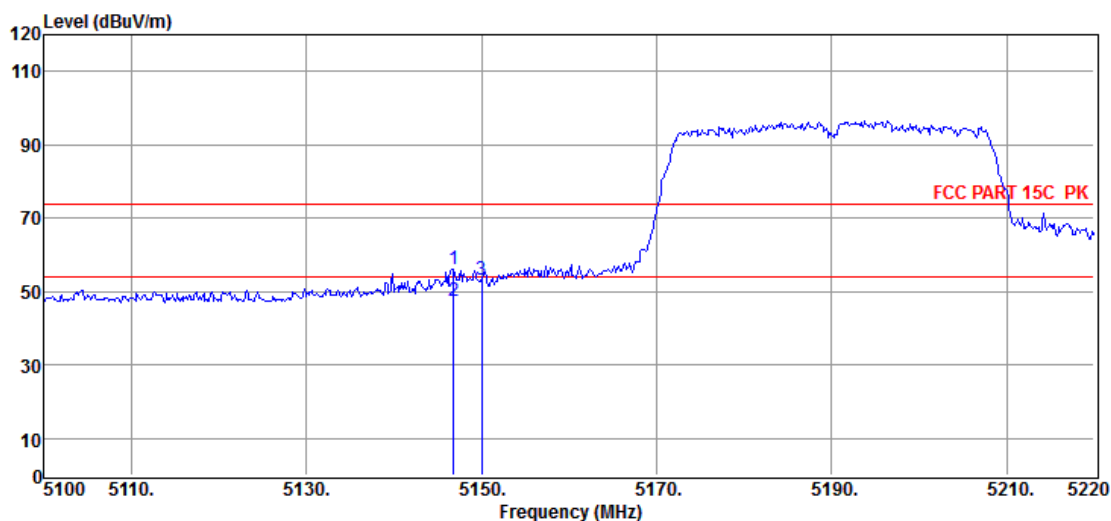
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11AC40 5190

Data: 53



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5146.80        | 59.55                   | 32.76                       | 43.25               | 7.06                | 56.12                       | 74.00                     | -17.88                | Peak     | VERTICAL     |
| 2              | 5146.80        | 50.69                   | 32.76                       | 43.25               | 7.06                | 47.26                       | 54.00                     | -6.74                 | Average  | VERTICAL     |
| 3              | 5150.04        | 56.66                   | 32.76                       | 43.25               | 7.06                | 53.23                       | 74.00                     | -20.77                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

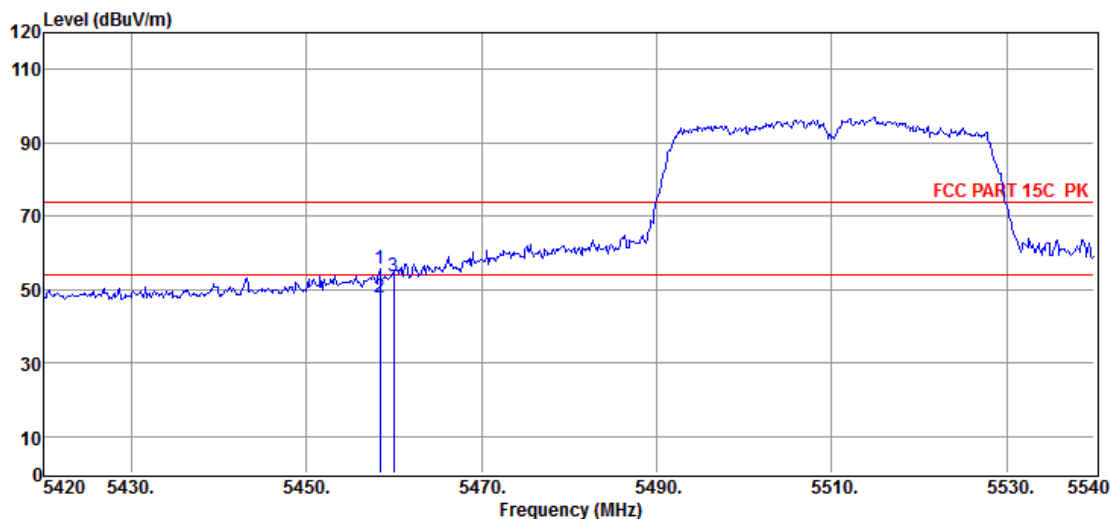
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11AC40 5510

Data: 54



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5458.40        | 59.20                   | 32.88                       | 43.34               | 7.11                | 55.85                       | 74.00                     | -18.15                | Peak     | VERTICAL     |
| 2              | 5458.40        | 51.38                   | 32.88                       | 43.34               | 7.11                | 48.03                       | 54.00                     | -5.97                 | Average  | VERTICAL     |
| 3              | 5459.96        | 56.83                   | 32.88                       | 43.34               | 7.11                | 53.48                       | 74.00                     | -20.52                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

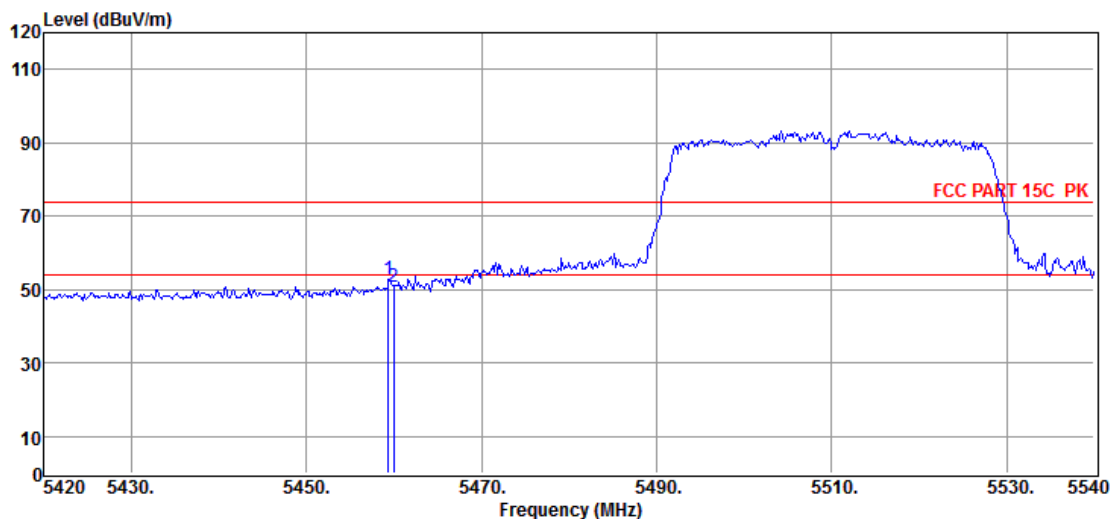
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC40 5510

Data: 55



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5459.36        | 56.00                   | 32.88                       | 43.34               | 7.11                | 52.65                       | 74.00                     | -21.35                | Peak     | HORIZONTAL   |
| 2              | 5459.96        | 54.09                   | 32.88                       | 43.34               | 7.11                | 50.74                       | 74.00                     | -23.26                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

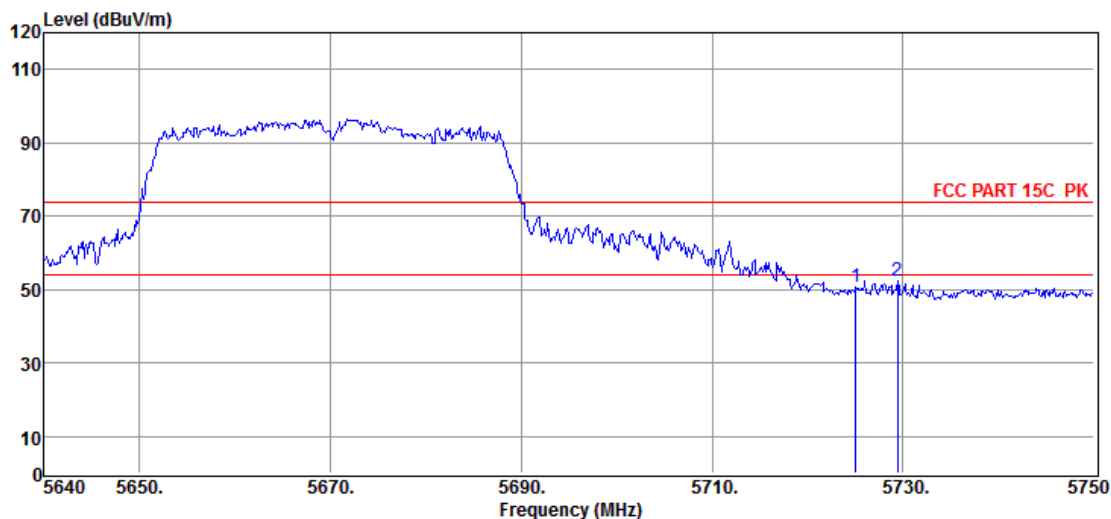
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC40 5670

Data: 56



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.03        | 53.55                   | 33.17                       | 43.42               | 7.24                | 50.54                       | 74.00                     | -23.46                | Peak     | HORIZONTAL   |
| 2              | 5729.43        | 55.50                   | 33.18                       | 43.42               | 7.25                | 52.51                       | 74.00                     | -21.49                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

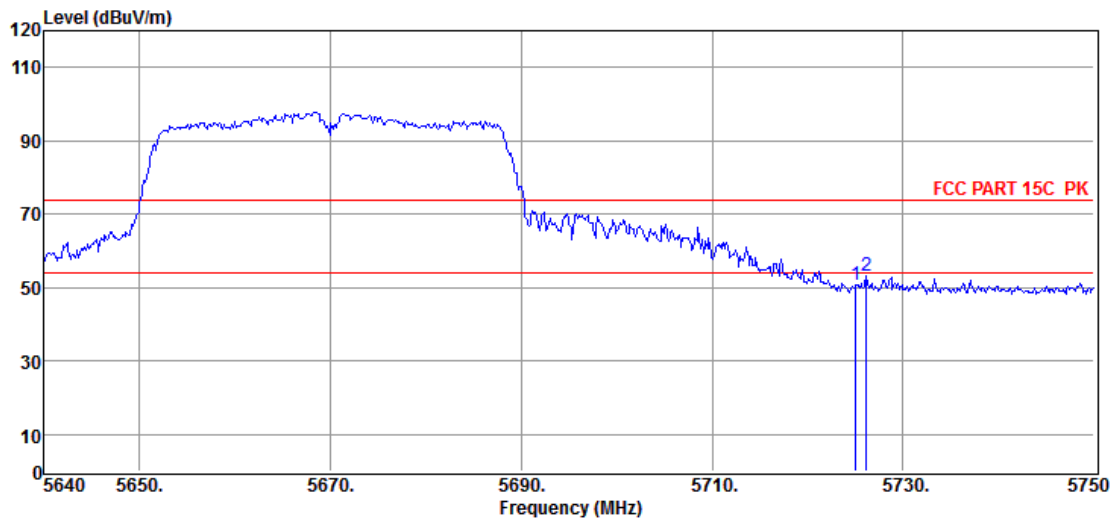
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11AC40 5670

Data: 57



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.03        | 53.76                   | 33.17                       | 43.42               | 7.24                | 50.75                       | 74.00                     | -23.25                | Peak     | VERTICAL     |
| 2              | 5726.13        | 56.34                   | 33.17                       | 43.42               | 7.25                | 53.34                       | 74.00                     | -20.66                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

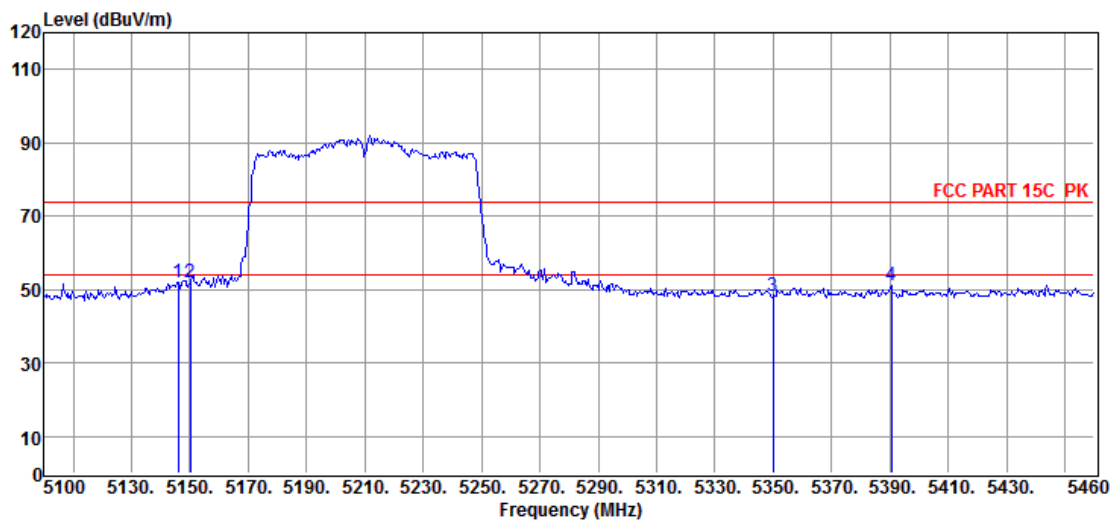
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/VERTICAL

Memo : 11AC80 5210

Data: 58



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5146.08        | 55.59                   | 32.76                       | 43.25               | 7.06                | 52.16                       | 74.00                     | -21.84                | Peak     | VERTICAL     |
| 2              | 5150.04        | 55.33                   | 32.76                       | 43.25               | 7.06                | 51.90                       | 74.00                     | -22.10                | Peak     | VERTICAL     |
| 3              | 5349.84        | 51.61                   | 32.84                       | 43.31               | 7.10                | 48.24                       | 74.00                     | -25.76                | Peak     | VERTICAL     |
| 4              | 5390.52        | 54.67                   | 32.86                       | 43.32               | 7.10                | 51.31                       | 74.00                     | -22.69                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

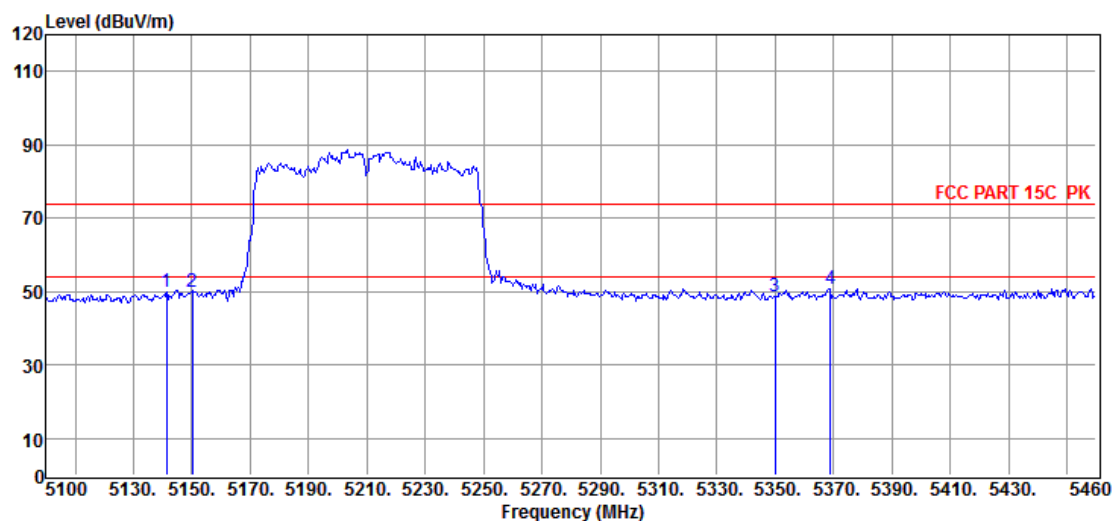
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11AC80 5210

Data: 59



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5141.40        | 53.42                   | 32.76                       | 43.25               | 7.06                | 49.99                       | 74.00                     | -24.01                | Peak     | HORIZONTAL   |
| 2              | 5150.04        | 53.50                   | 32.76                       | 43.25               | 7.06                | 50.07                       | 74.00                     | -23.93                | Peak     | HORIZONTAL   |
| 3              | 5349.84        | 52.02                   | 32.84                       | 43.31               | 7.10                | 48.65                       | 74.00                     | -25.35                | Peak     | HORIZONTAL   |
| 4              | 5368.92        | 54.28                   | 32.85                       | 43.32               | 7.10                | 50.91                       | 74.00                     | -23.09                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

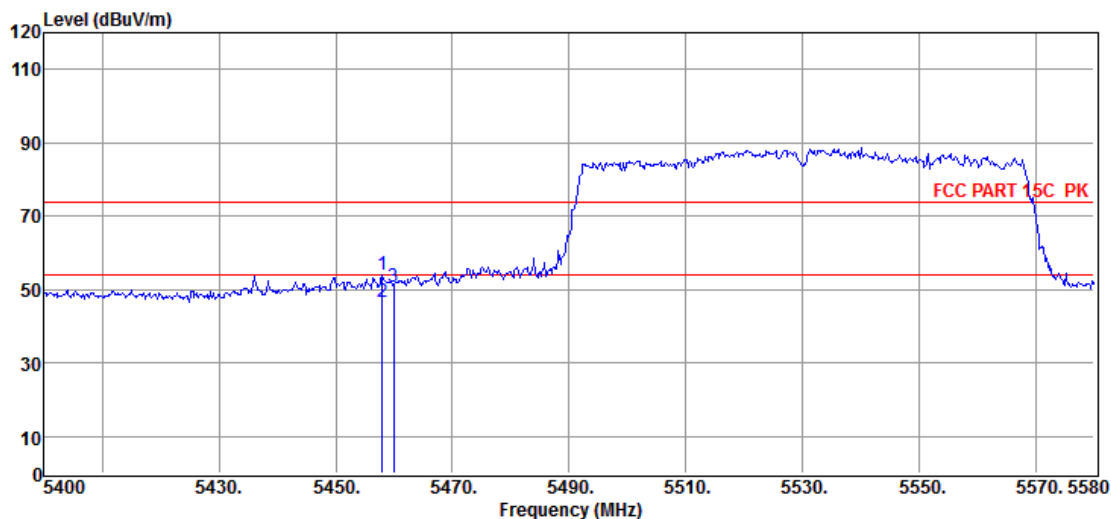
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC80 5530

Data: 60



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5457.96        | 57.51                   | 32.88                       | 43.34               | 7.11                | 54.16                       | 74.00                     | -19.84                | Peak     | HORIZONTAL   |
| 2              | 5457.96        | 49.88                   | 32.88                       | 43.34               | 7.11                | 46.53                       | 54.00                     | -7.47                 | Average  | HORIZONTAL   |
| 3              | 5459.94        | 54.10                   | 32.88                       | 43.34               | 7.11                | 50.75                       | 74.00                     | -23.25                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

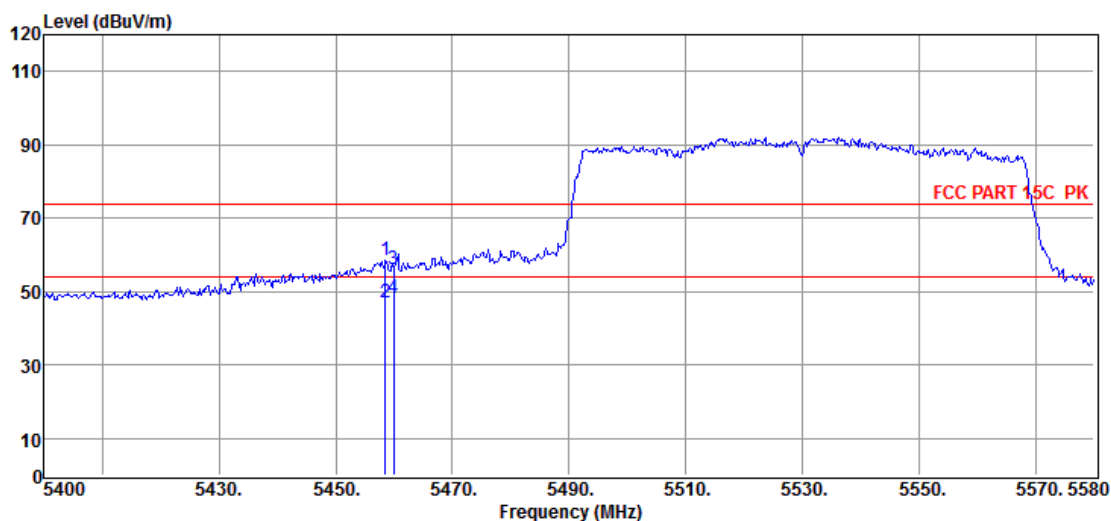
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11AC80 5530

Data: 61



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5458.50        | 61.88                   | 32.88                       | 43.34               | 7.11                | 58.53                       | 74.00                     | -15.47                | Peak     | VERTICAL     |
| 2              | 5458.50        | 50.30                   | 32.88                       | 43.34               | 7.11                | 46.95                       | 54.00                     | -7.05                 | Average  | VERTICAL     |
| 3              | 5459.94        | 59.50                   | 32.88                       | 43.34               | 7.11                | 56.15                       | 74.00                     | -17.85                | Peak     | VERTICAL     |
| 4              | 5459.94        | 51.69                   | 32.88                       | 43.34               | 7.11                | 48.34                       | 54.00                     | -5.66                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

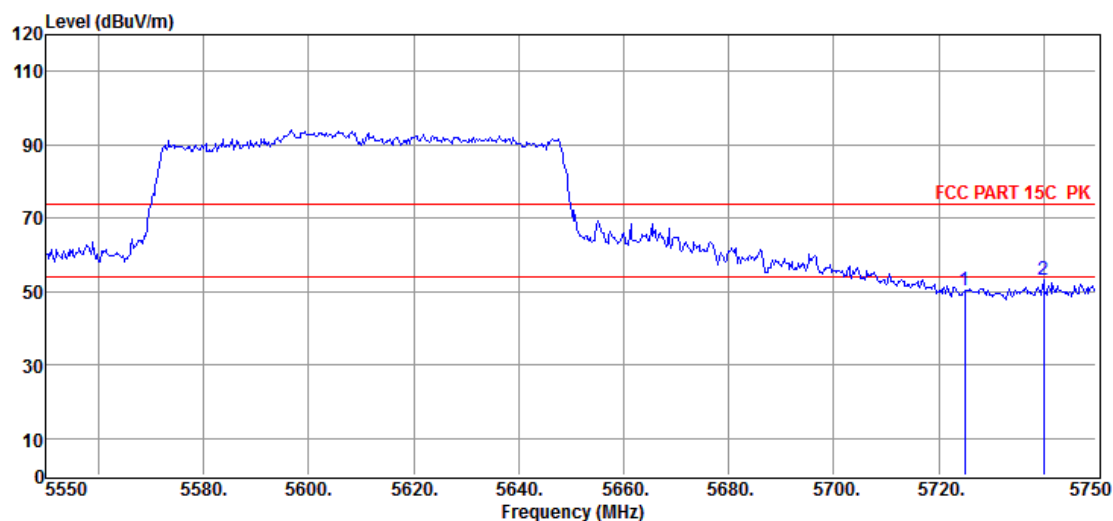
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11AC80 5610

Data: 62



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.00        | 53.32                   | 33.17                       | 43.42               | 7.24                | 50.31                       | 74.00                     | -23.69                | Peak     | VERTICAL     |
| 2              | 5740.00        | 56.04                   | 33.19                       | 43.43               | 7.25                | 53.05                       | 74.00                     | -20.95                | Peak     | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

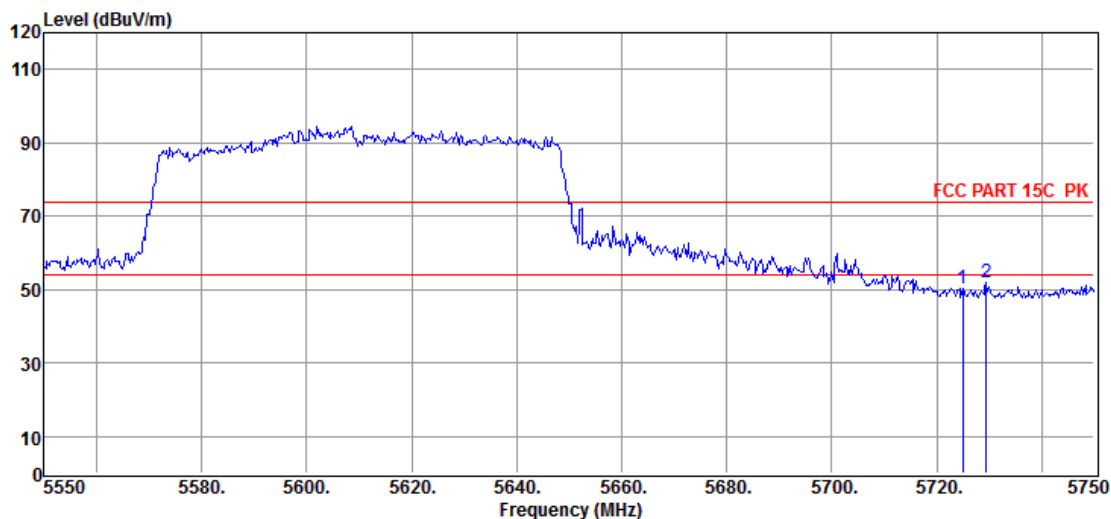
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC80 5610

Data: 63



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5725.00        | 53.13                   | 33.17                       | 43.42               | 7.24                | 50.12                       | 74.00                     | -23.88                | Peak     | HORIZONTAL   |
| 2              | 5729.40        | 54.87                   | 33.18                       | 43.42               | 7.25                | 51.88                       | 74.00                     | -22.12                | Peak     | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

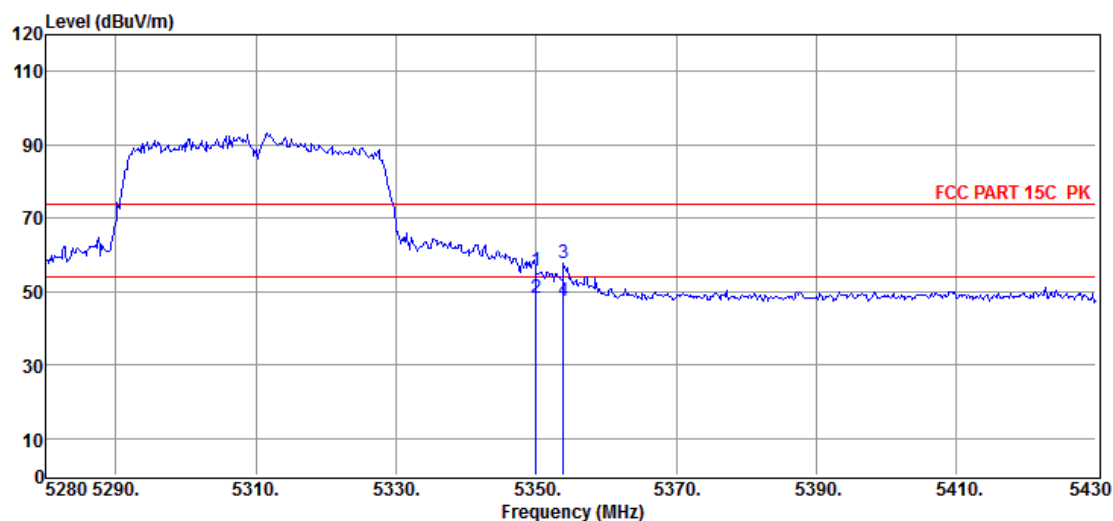
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/HORIZONTAL

**Memo** : 11AC40 5310 POWER 70

Data: 64



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBuV/m) | Limit<br>Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.05        | 58.93                   | 32.84                       | 43.31               | 7.10                | 55.56                       | 74.00                     | -18.44                | Peak     | HORIZONTAL   |
| 2              | 5350.05        | 51.53                   | 32.84                       | 43.31               | 7.10                | 48.16                       | 54.00                     | -5.84                 | Average  | HORIZONTAL   |
| 3              | 5353.95        | 61.24                   | 32.84                       | 43.31               | 7.10                | 57.87                       | 74.00                     | -16.13                | Peak     | HORIZONTAL   |
| 4              | 5353.95        | 50.80                   | 32.84                       | 43.31               | 7.10                | 47.43                       | 54.00                     | -6.57                 | Average  | HORIZONTAL   |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50A\RF\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

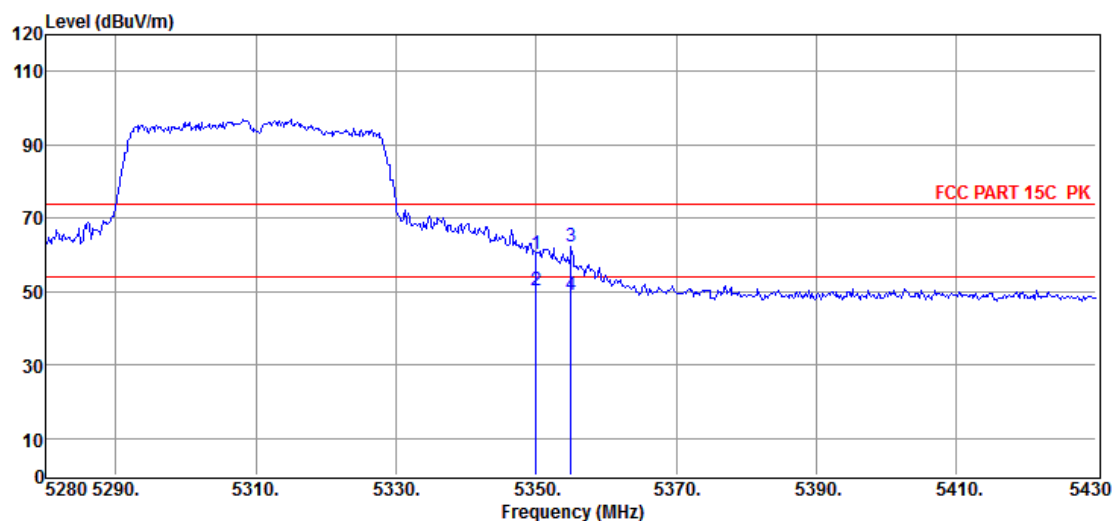
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11AC40 5310 POWER 70

Data: 65



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBuV/m) | Limit<br>Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5350.05        | 63.46                   | 32.84                       | 43.31               | 7.10                | 60.09                       | 74.00                     | -13.91                | Peak     | VERTICAL     |
| 2              | 5350.05        | 53.64                   | 32.84                       | 43.31               | 7.10                | 50.27                       | 54.00                     | -3.73                 | Average  | VERTICAL     |
| 3              | 5355.00        | 65.68                   | 32.84                       | 43.31               | 7.10                | 62.31                       | 74.00                     | -11.69                | Peak     | VERTICAL     |
| 4              | 5355.00        | 52.61                   | 32.84                       | 43.31               | 7.10                | 49.24                       | 54.00                     | -4.76                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

**Test Date** : 2021-03-30

**Tested By** : Kennys

**EUT** : Wireless Speaker

**Model Number** : EDF100008

**Power Supply** : AC120V 60Hz

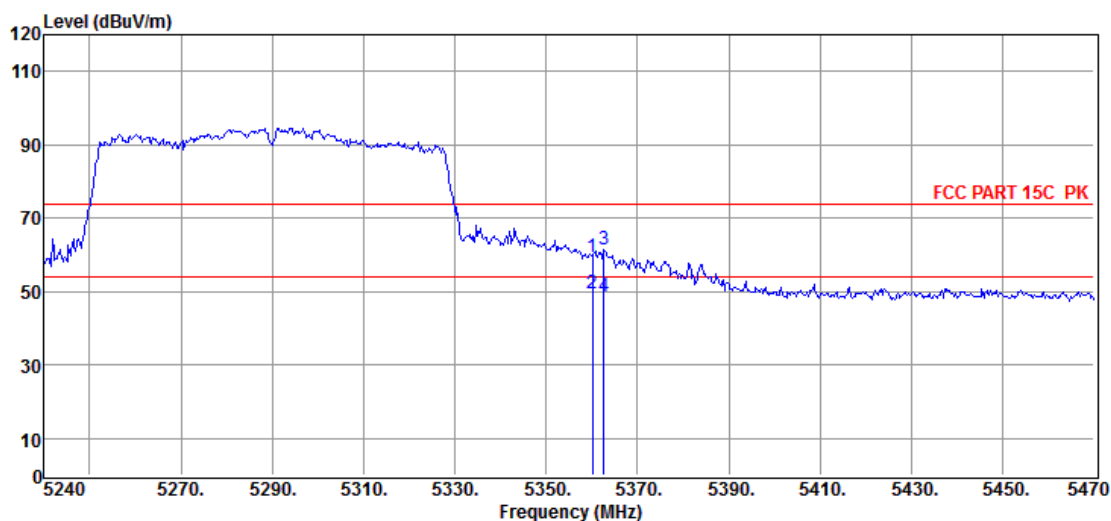
**Test Mode** : Tx mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2020 BBHA9120D/3m/VERTICAL

**Memo** : 11AC80 5290 POWER 70

Data: 66



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5360.06        | 62.90                   | 32.84                       | 43.31               | 7.10                | 59.53                       | 74.00                     | -14.47                | Peak     | VERTICAL     |
| 2              | 5360.06        | 52.74                   | 32.84                       | 43.31               | 7.10                | 49.37                       | 54.00                     | -4.63                 | Average  | VERTICAL     |
| 3              | 5362.59        | 64.79                   | 32.85                       | 43.32               | 7.10                | 61.42                       | 74.00                     | -12.58                | Peak     | VERTICAL     |
| 4              | 5362.59        | 51.98                   | 32.85                       | 43.32               | 7.10                | 48.61                       | 54.00                     | -5.39                 | Average  | VERTICAL     |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 2#

D:\2021 RE2# Report Data\Q21030302-2E MS50AIR\FCC  
ABOVE 1G 5G.EM6

Test Date : 2021-03-30

Tested By : Kennys

EUT : Wireless Speaker

Model Number : EDF100008

Power Supply : AC120V 60Hz

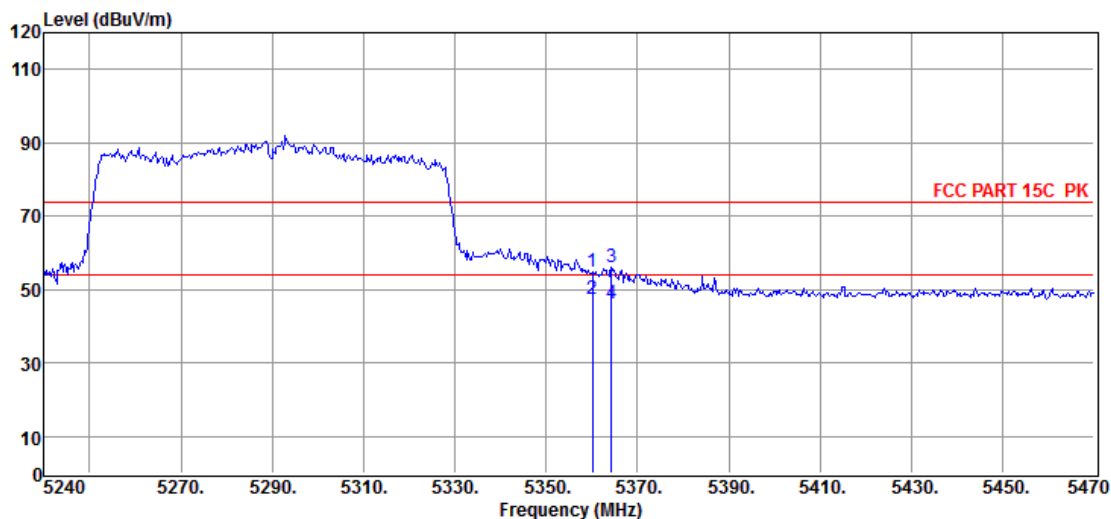
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2020 BBHA9120D/3m/HORIZONTAL

Memo : 11AC80 5290 POWER 70

Data: 67

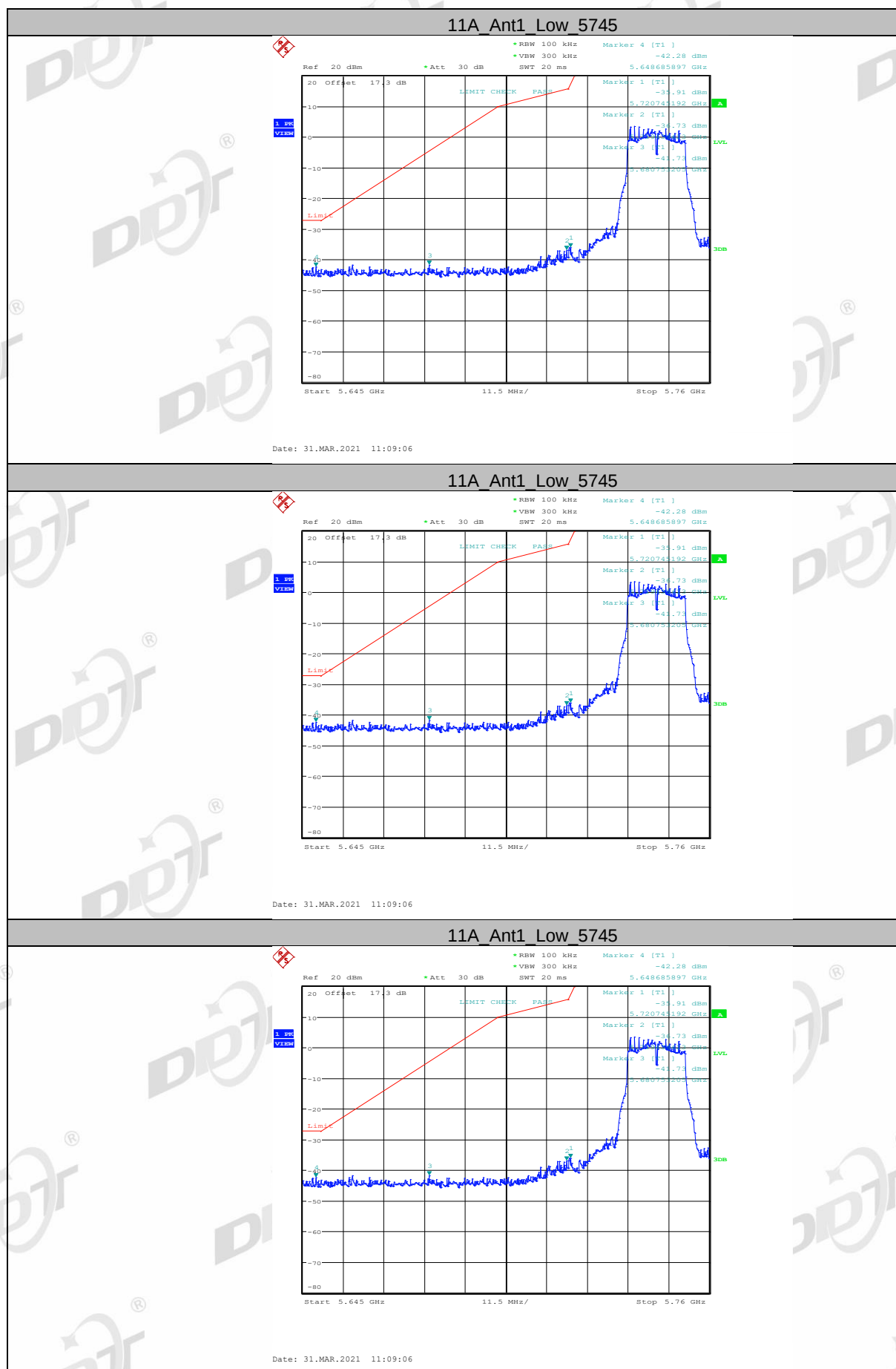


| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>(dB/m) | PRM<br>Factor<br>dB | Cable<br>Loss<br>dB | Result<br>Level<br>(dBμV/m) | Limit<br>Line<br>(dBμV/m) | Over<br>Limit<br>(dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1              | 5360.06        | 58.16                   | 32.84                       | 43.31               | 7.10                | 54.79                       | 74.00                     | -19.21                | Peak     | HORIZONTAL   |
| 2              | 5360.06        | 50.67                   | 32.84                       | 43.31               | 7.10                | 47.30                       | 54.00                     | -6.70                 | Average  | HORIZONTAL   |
| 3              | 5364.20        | 59.34                   | 32.85                       | 43.32               | 7.10                | 55.97                       | 74.00                     | -18.03                | Peak     | HORIZONTAL   |
| 4              | 5364.20        | 49.68                   | 32.85                       | 43.32               | 7.10                | 46.31                       | 54.00                     | -7.69                 | Average  | HORIZONTAL   |

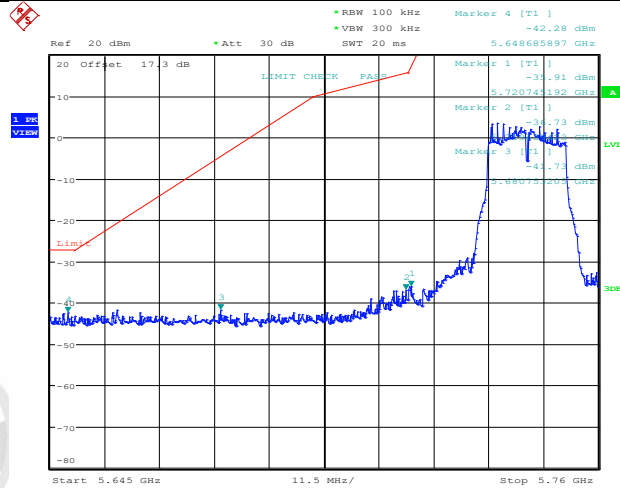
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

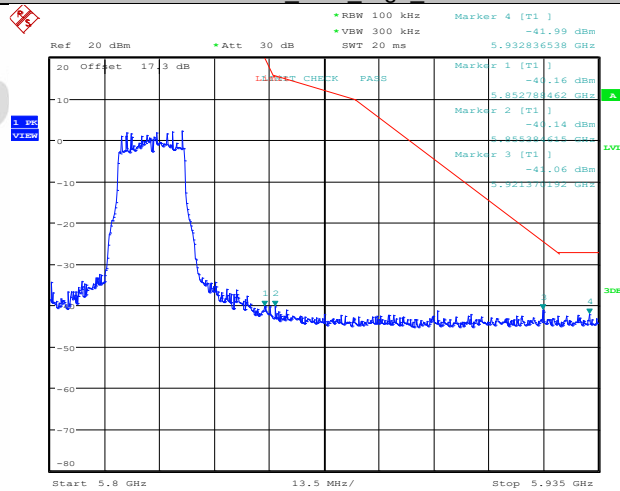
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



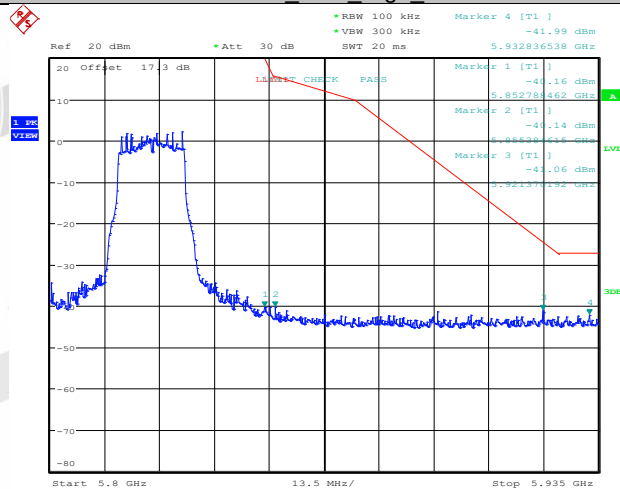
## 11A\_Ant1\_Low\_5745



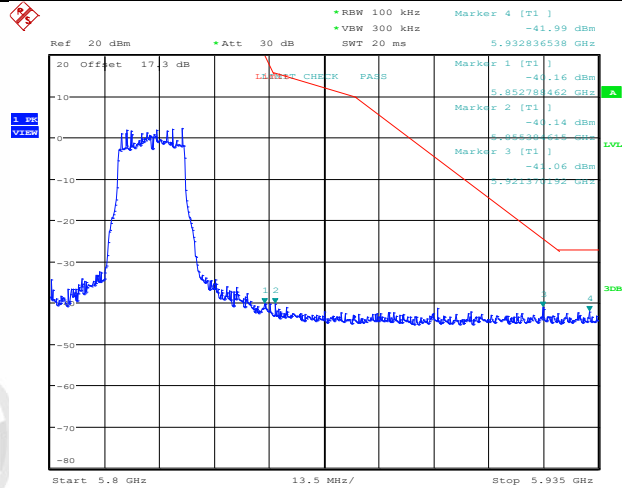
## 11A\_Ant1\_High\_5825



## 11A\_Ant1\_High\_5825

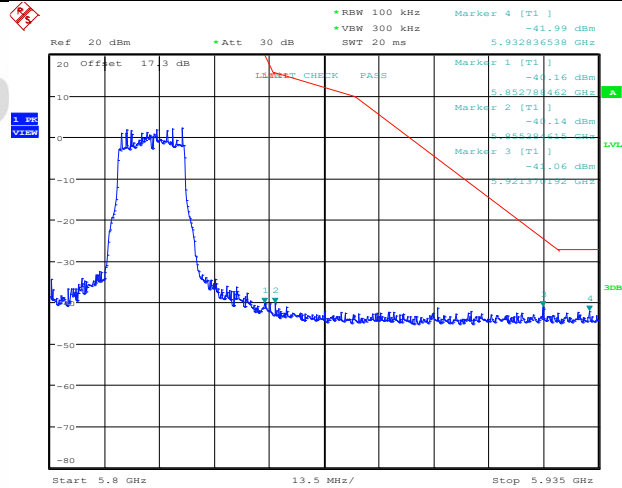


## 11A\_Ant1\_High\_5825



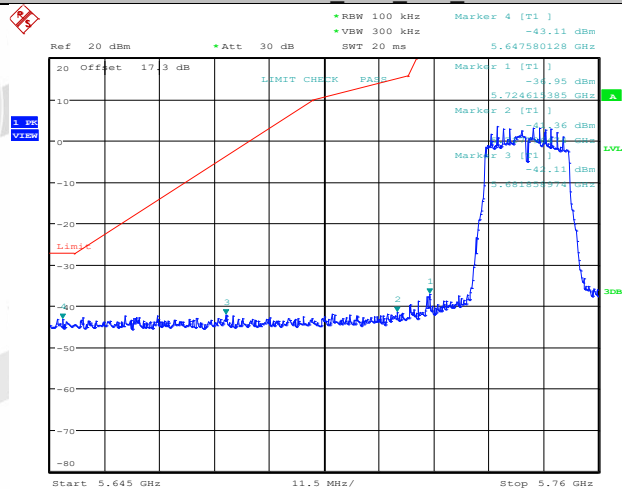
Date: 31.MAR.2021 10:54:48

## 11A\_Ant1\_High\_5825



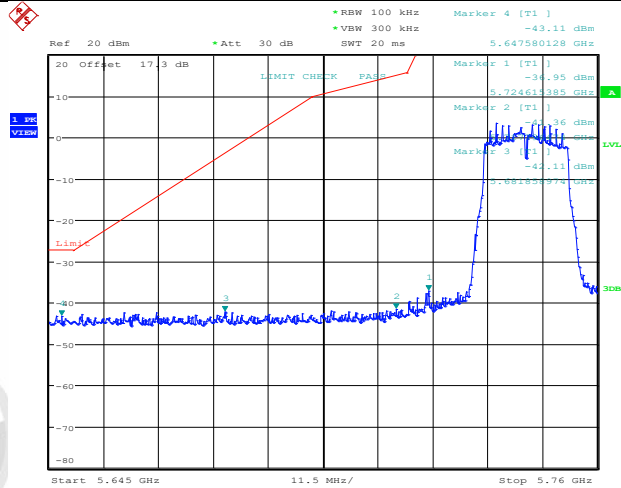
Date: 31.MAR.2021 10:54:48

## 11N20SISO\_Ant1\_Low\_5745

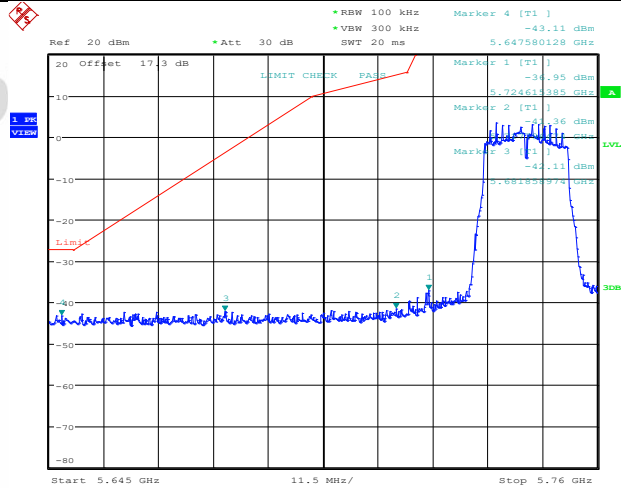


Date: 31.MAR.2021 10:55:38

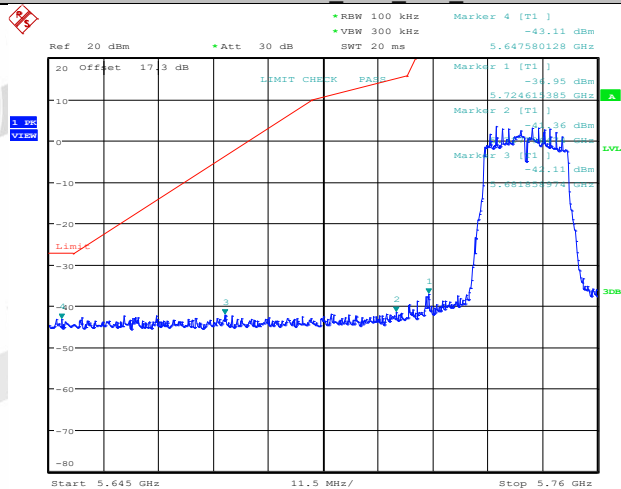
## 11N20SISO Ant1 Low 5745



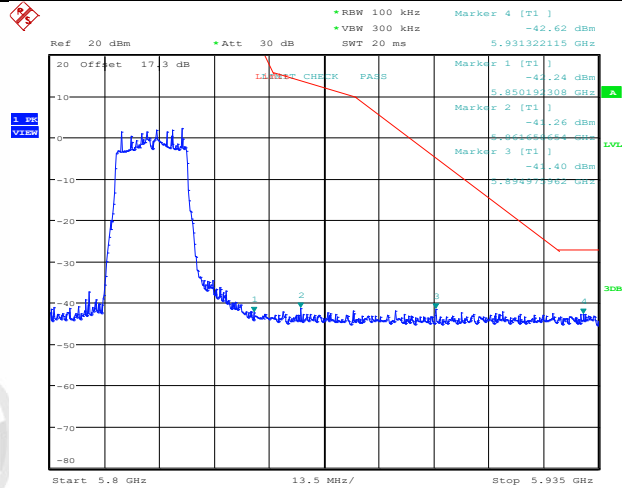
## 11N20SISO Ant1 Low 5745



## 11N20SISO Ant1 Low 5745

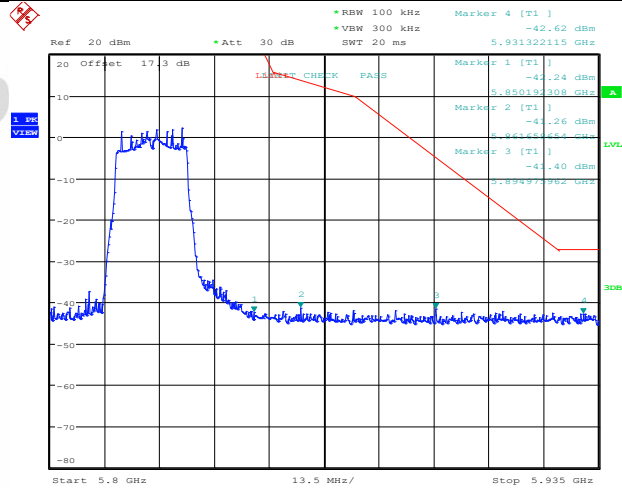


## 11N20SISO\_Ant1\_High\_5825



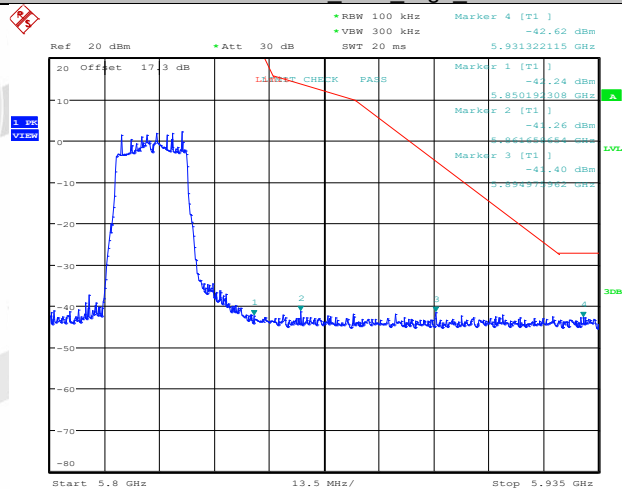
Date: 31.MAR.2021 10:56:20

## 11N20SISO\_Ant1\_High\_5825



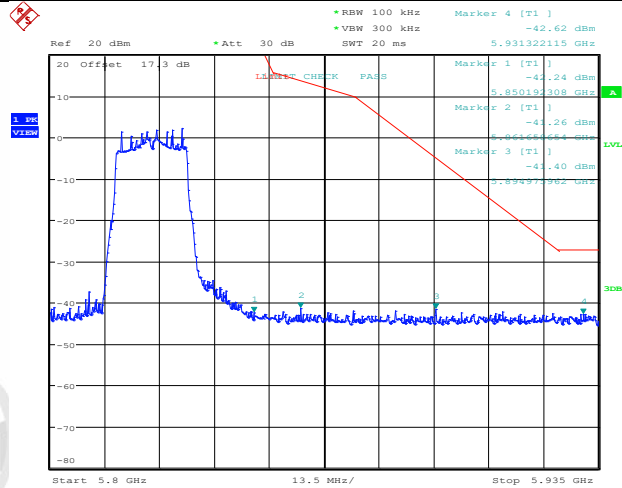
Date: 31.MAR.2021 10:56:20

## 11N20SISO\_Ant1\_High\_5825



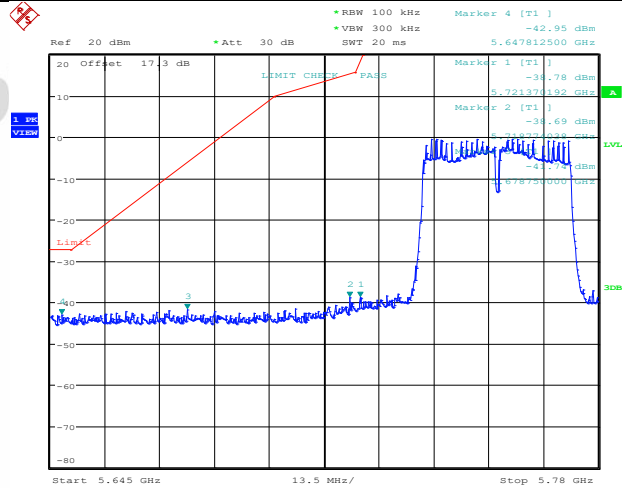
Date: 31.MAR.2021 10:56:20

## 11N20SISO\_Ant1\_High\_5825



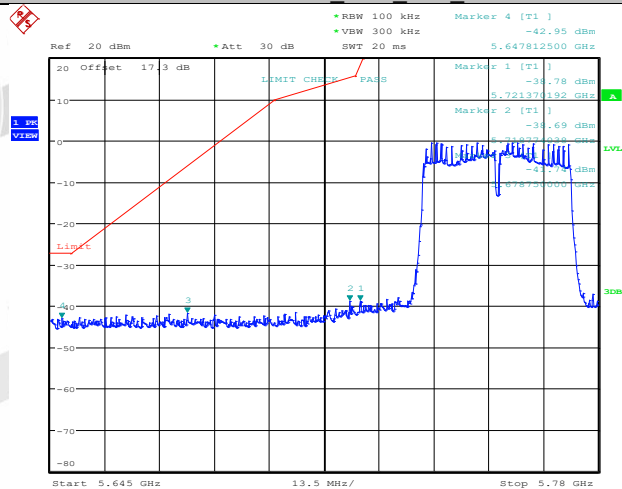
Date: 31.MAR.2021 10:56:20

## 11N40SISO\_Ant1\_Low\_5755



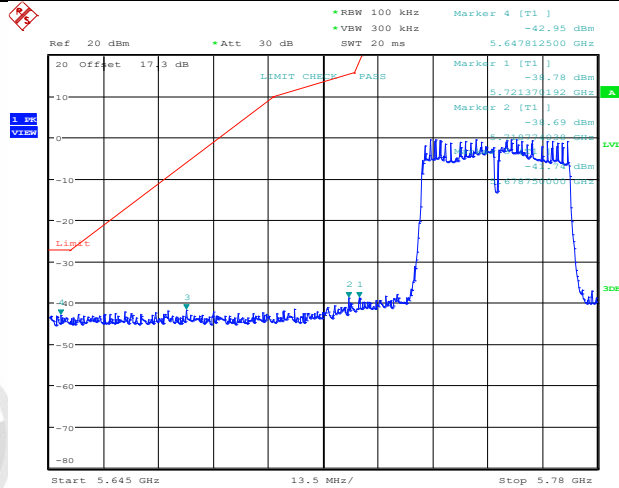
Date: 31.MAR.2021 10:57:46

## 11N40SISO\_Ant1\_Low\_5755



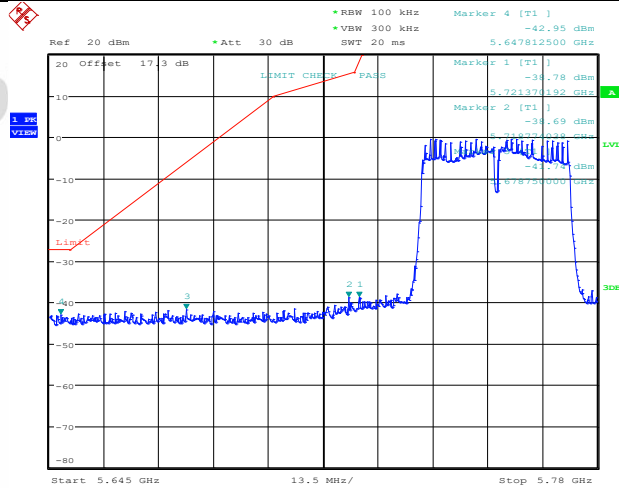
Date: 31.MAR.2021 10:57:46

## 11N40SISO Ant1 Low 5755



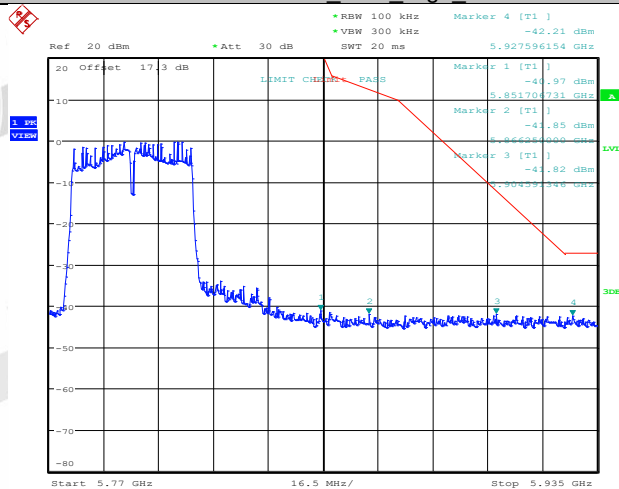
Date: 31.MAR.2021 10:57:46

## 11N40SISO Ant1 Low 5755



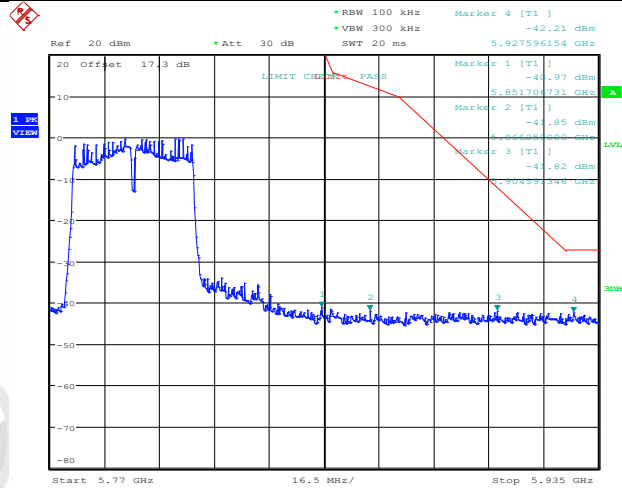
Date: 31.MAR.2021 10:57:46

## 11N40SISO Ant1 High 5795



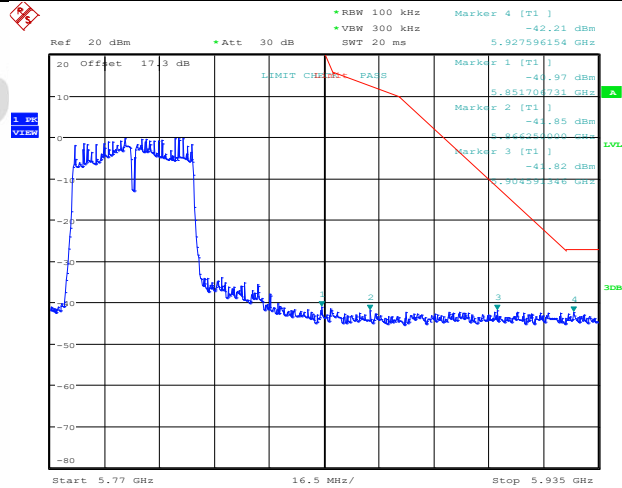
Date: 31.MAR.2021 10:58:45

## 11N40SISO\_Ant1\_High\_5795



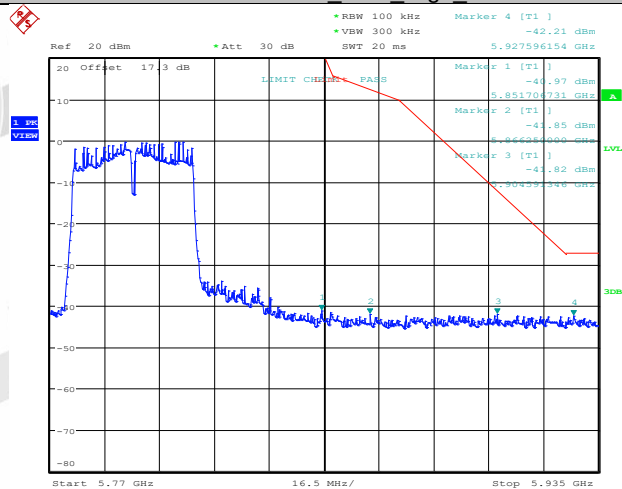
Date: 31.MAR.2021 10:58:45

## 11N40SISO\_Ant1\_High\_5795



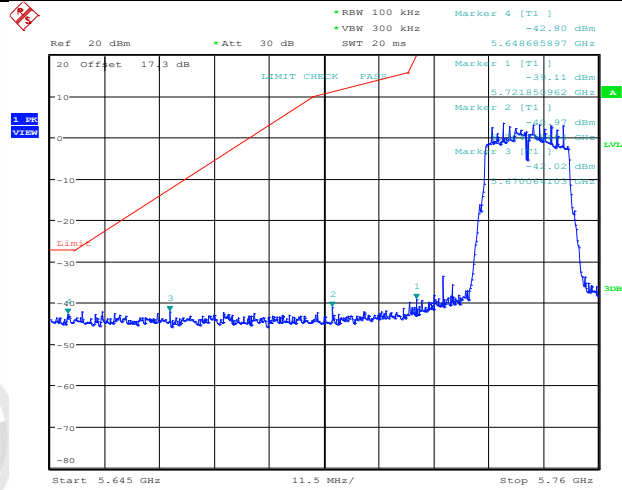
Date: 31.MAR.2021 10:58:45

## 11N40SISO\_Ant1\_High\_5795

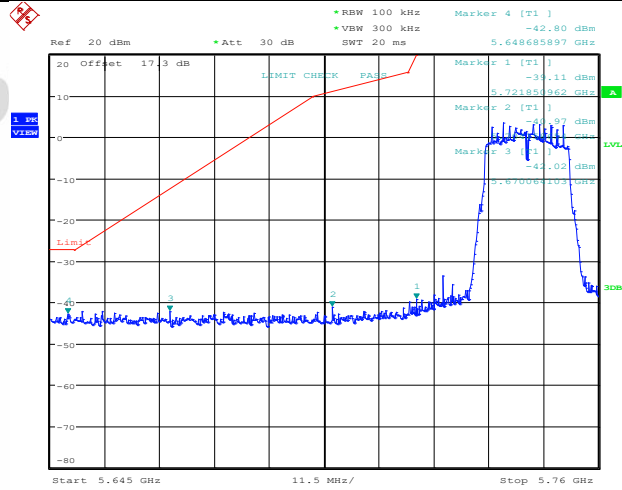


Date: 31.MAR.2021 10:58:45

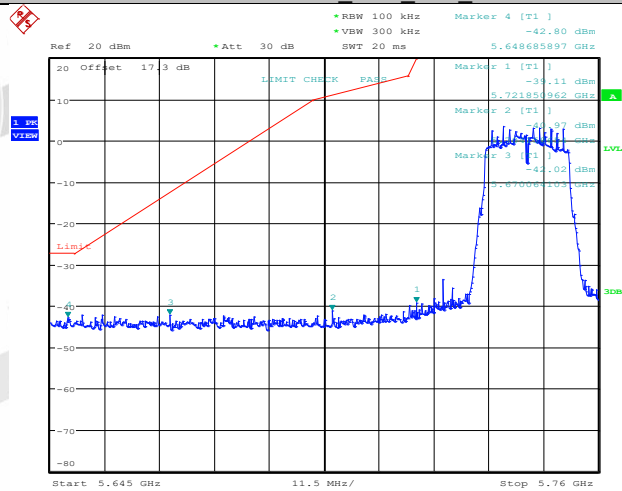
## 11AC20SISO Ant1 Low 5745



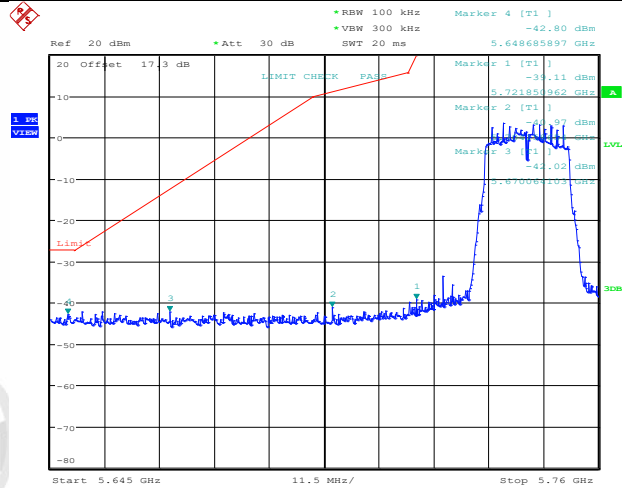
## 11AC20SISO Ant1 Low 5745



## 11AC20SISO Ant1 Low 5745

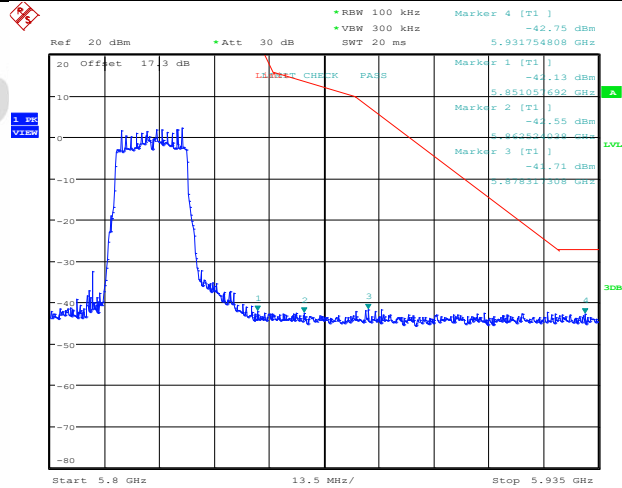


## 11AC20SISO Ant1 Low 5745



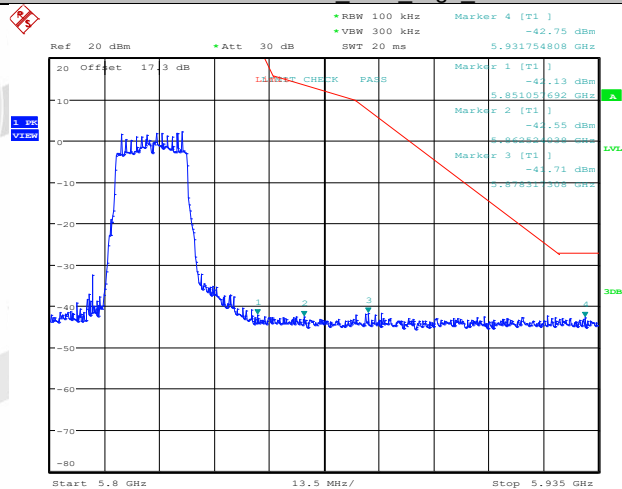
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## 11AC20SISO Ant1 High 5825



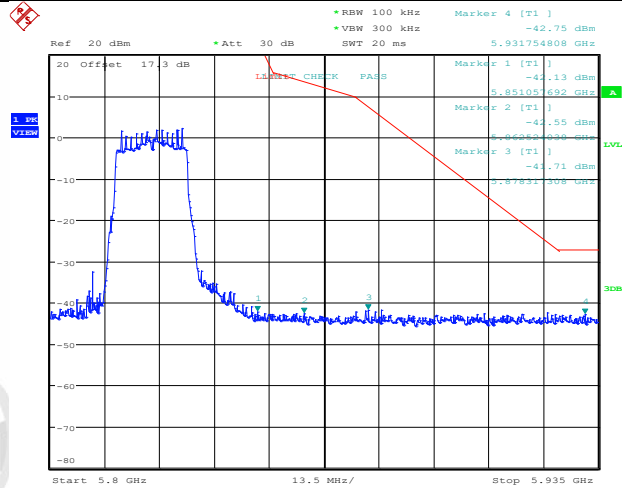
Date: 31.MAR.2021 11:00:16

## 11AC20SISO Ant1 High 5825

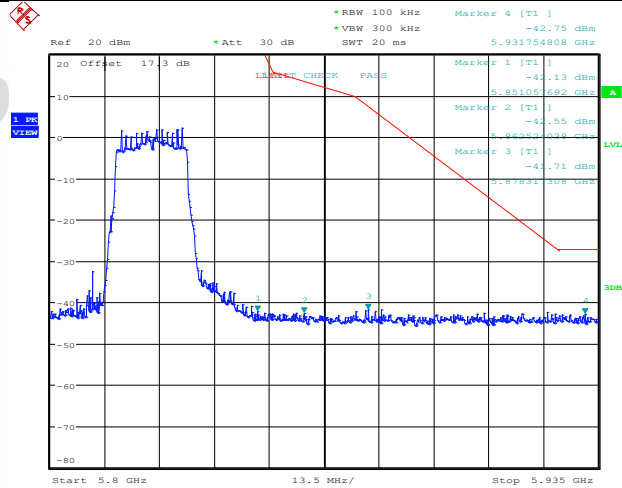


Date: 31.MAR.2021 11:00:16

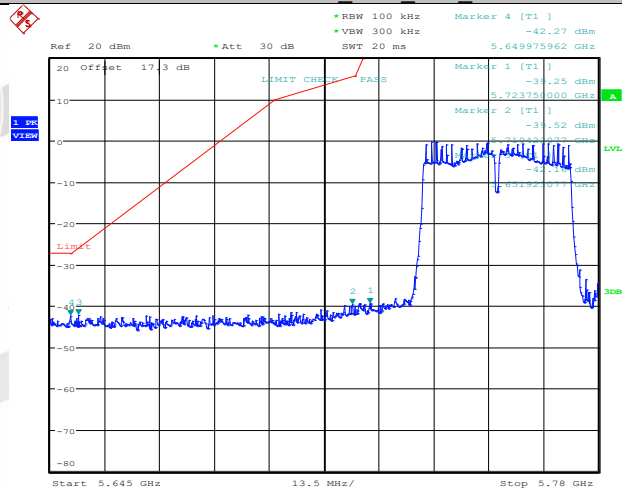
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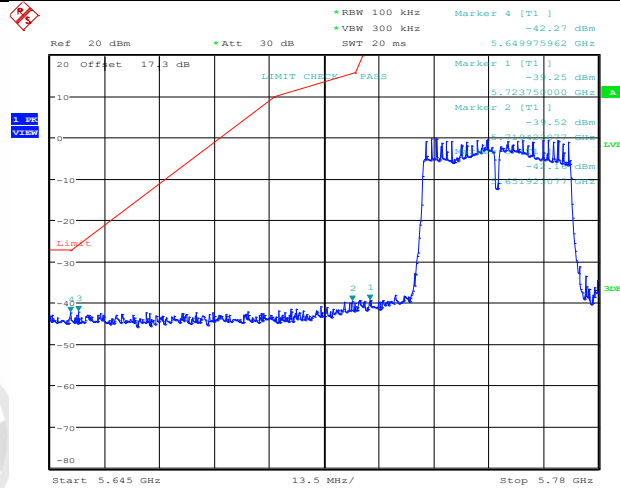
## 11AC20SISO\_Ant1\_High\_5825



## 11AC40SISO\_Ant1\_Low\_5755

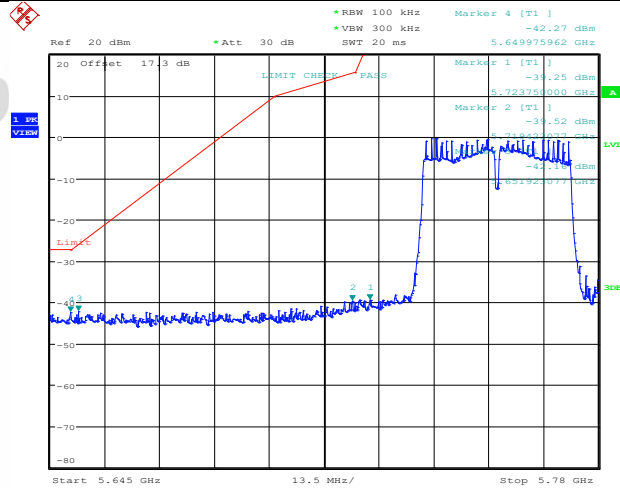


## 11AC40SISO Ant1 Low 5755



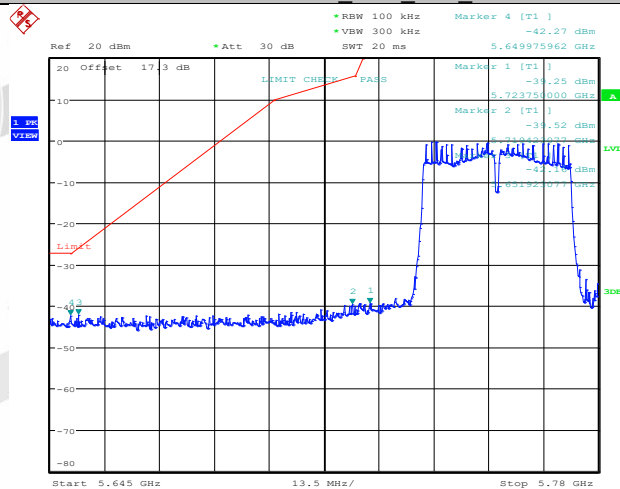
Date: 31.MAR.2021 11:01:37

## 11AC40SISO Ant1 Low 5755



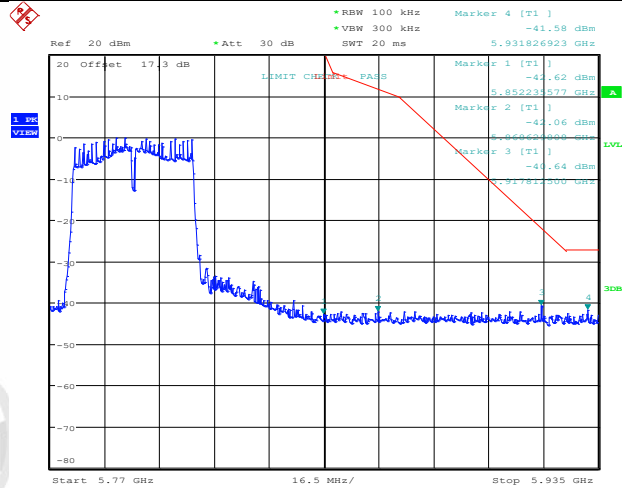
Date: 31.MAR.2021 11:01:37

## 11AC40SISO Ant1 Low 5755

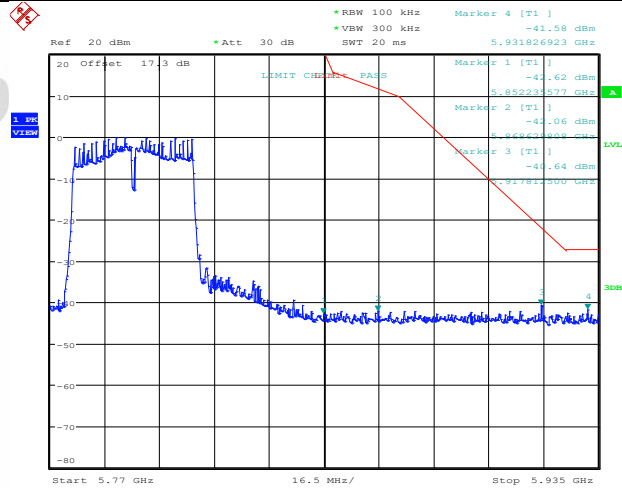


Date: 31.MAR.2021 11:01:37

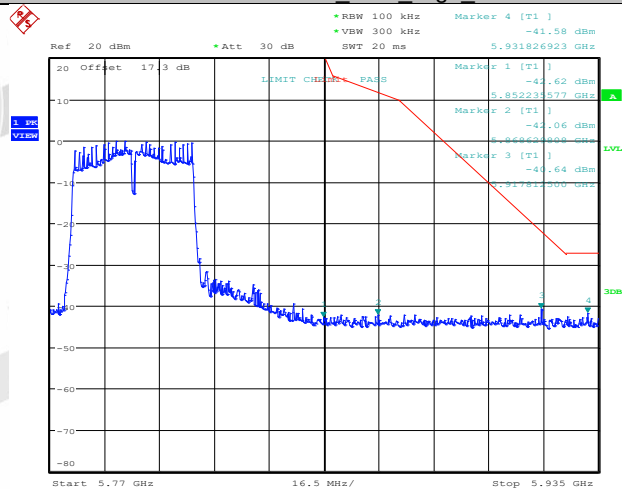
## 11AC40SISO\_Ant1\_High\_5795



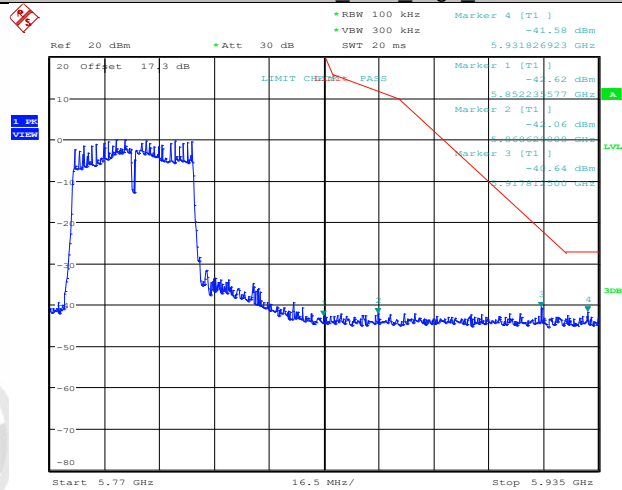
## 11AC40SISO\_Ant1\_High\_5795



## 11AC40SISO\_Ant1\_High\_5795

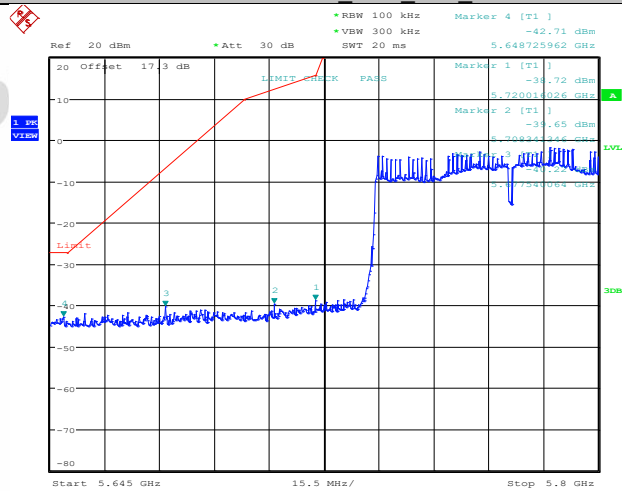


## 11AC40SISO\_Ant1\_High\_5795



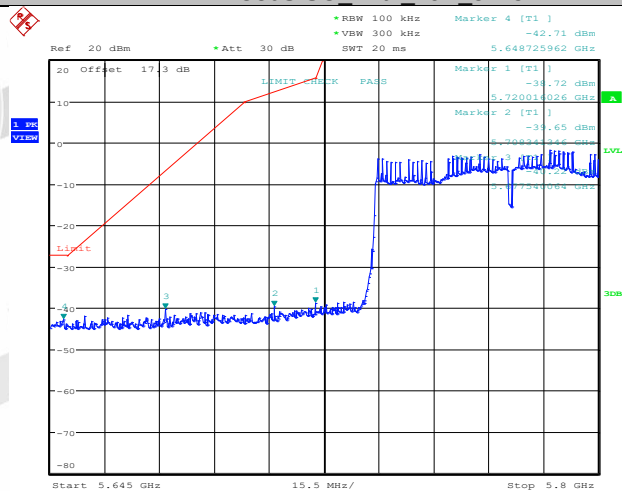
Date: 31.MAR.2021 11:02:16

## 11AC80SISO\_Ant1\_Low\_5775



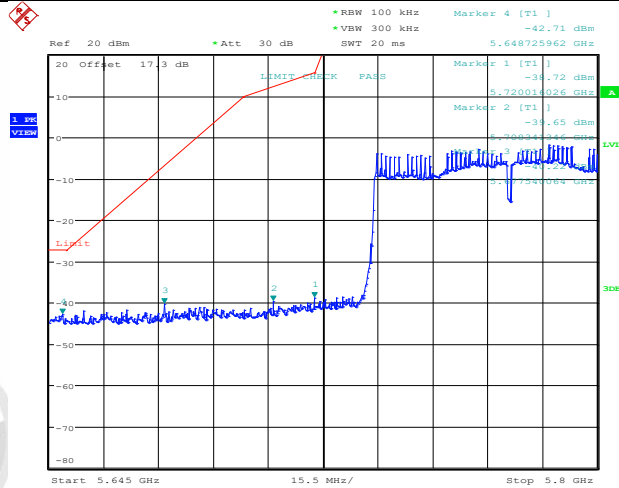
Date: 31.MAR.2021 11:04:57

## 11AC80SISO\_Ant1\_Low\_5775



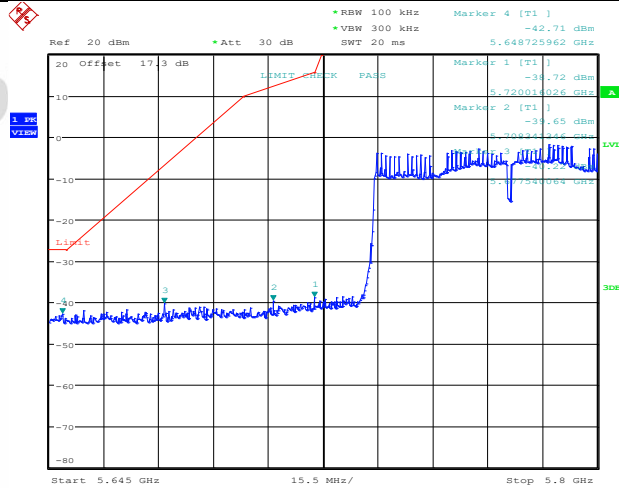
Date: 31.MAR.2021 11:04:57

## 11AC80SISO Ant1 Low 5775



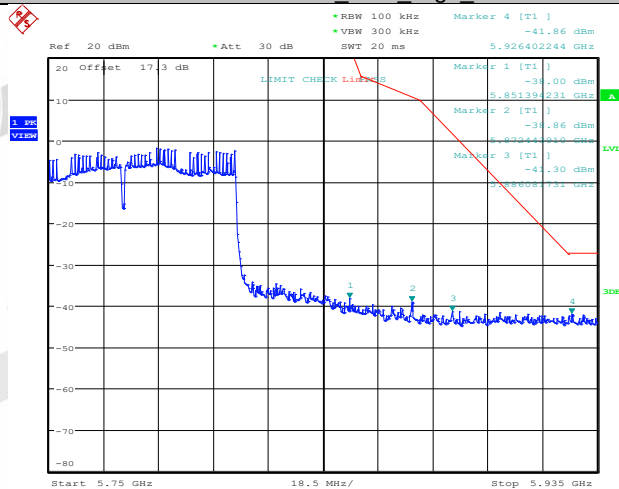
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## 11AC80SISO Ant1 Low 5775



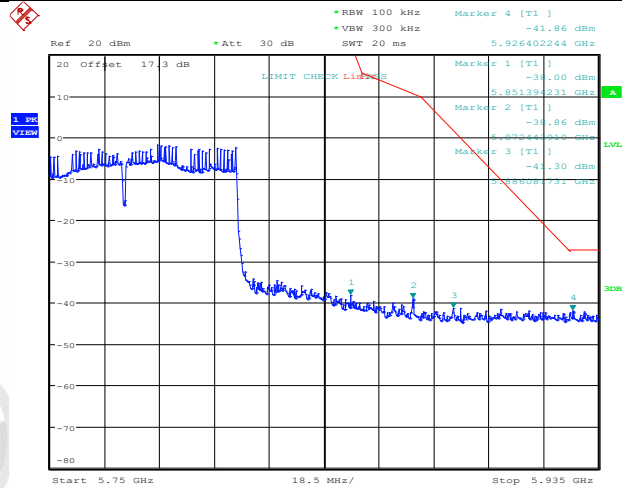
Date: 31.MAR.2021 11:04:57

## 11AC80SISO Ant1 High 5775



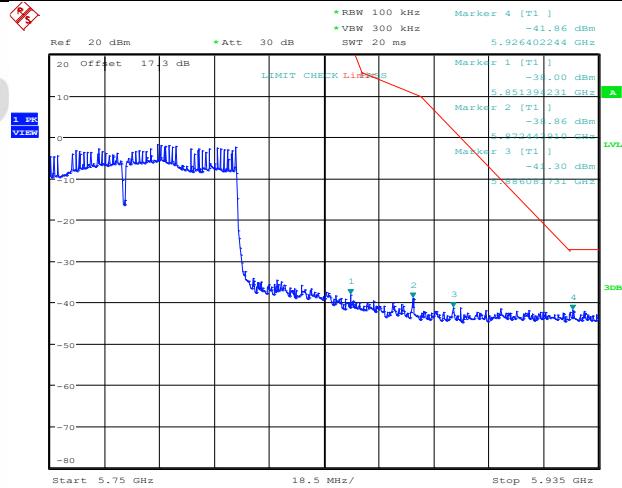
Date: 31.MAR.2021 11:09:43

## 11AC80SISO Ant1 High 5775



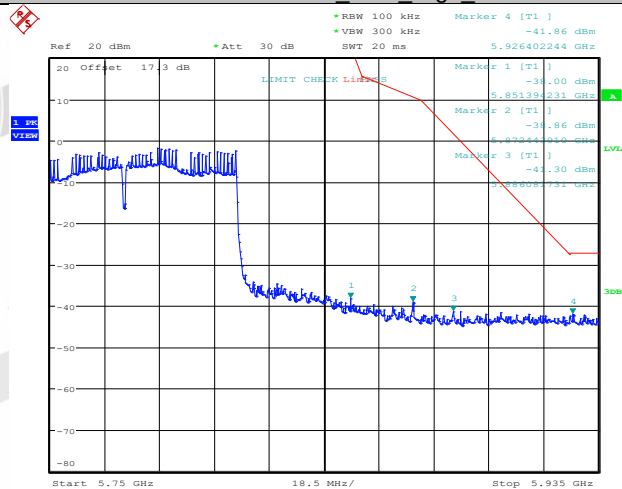
Date: 31.MAR.2021 11:09:43

## 11AC80SISO Ant1 High 5775



Date: 31.MAR.2021 11:09:43

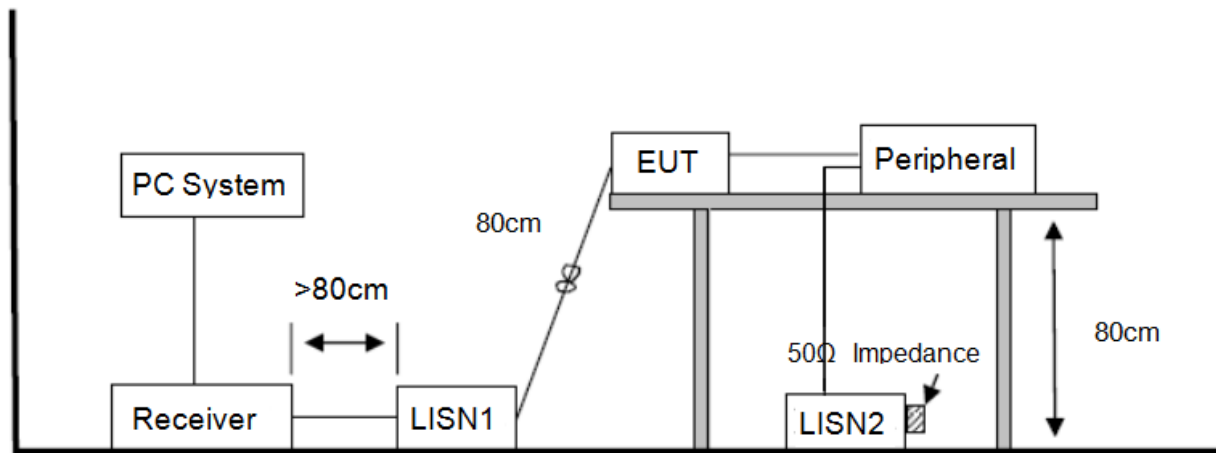
## 11AC80SISO Ant1 High 5775



Date: 31.MAR.2021 11:09:43

## 10. Power Line Conducted Emission

### 10.1. Block diagram of test setup



### 10.2. Power Line Conducted Emission Limits (Class B)

| Frequency         | Quasi-Peak Level<br>dB(μV) | Average Level<br>dB(μV) |
|-------------------|----------------------------|-------------------------|
| 150 kHz ~ 500 kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500 kHz ~ 5 MHz   | 56                         | 46                      |
| 5 MHz ~ 30 MHz    | 60                         | 50                      |

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

### 10.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test. EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

#### 10.4. Test Result

**PASS. (See below detailed test result)**

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means peak detection; "----" means average detection

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

# TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

D:\2021 report data\Q21030302-1E\RF FCC CE.EM6

Test Date : 2021-03-05

Tested By : Junchang Du

EUT : Wireless Speaker

Model Number : EDF100008

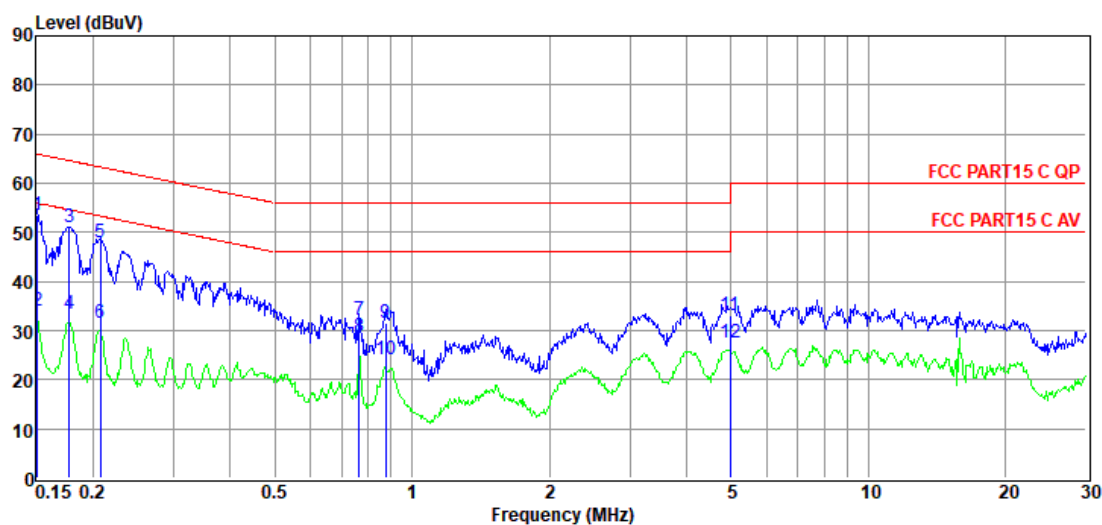
Power Supply : AC 120V/60Hz

Test Mode : 5GWI-FI mode

Condition : Temp:24.5°C,Humi:55.5%,Press:100.1kPa

LISN : 2020 ENV 216 2#/LINE

Memo :



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Limiter<br>Factor<br>(dB) | Result<br>Level<br>(dBμV) | Limit<br>Line<br>(dBμV) | Over<br>Limit<br>(dB) | Detector | Phase |
|----------------|----------------|-------------------------|------------------------|-----------------------|------------------------------------|---------------------------|-------------------------|-----------------------|----------|-------|
| 1              | 0.15           | 34.10                   | 9.41                   | 0.02                  | 10.01                              | 53.54                     | 65.96                   | -12.42                | QP       | LINE  |
| 2              | 0.15           | 14.74                   | 9.41                   | 0.02                  | 10.01                              | 34.18                     | 55.96                   | -21.78                | Average  | LINE  |
| 3              | 0.18           | 31.56                   | 9.42                   | 0.02                  | 10.01                              | 51.01                     | 64.59                   | -13.58                | QP       | LINE  |
| 4              | 0.18           | 13.96                   | 9.42                   | 0.02                  | 10.01                              | 33.41                     | 54.59                   | -21.18                | Average  | LINE  |
| 5              | 0.21           | 28.61                   | 9.42                   | 0.02                  | 10.01                              | 48.06                     | 63.32                   | -15.26                | QP       | LINE  |
| 6              | 0.21           | 11.94                   | 9.42                   | 0.02                  | 10.01                              | 31.39                     | 53.32                   | -21.93                | Average  | LINE  |
| 7              | 0.77           | 12.65                   | 9.44                   | 0.03                  | 10.01                              | 32.13                     | 56.00                   | -23.87                | QP       | LINE  |
| 8              | 0.77           | 9.17                    | 9.44                   | 0.03                  | 10.01                              | 28.65                     | 46.00                   | -17.35                | Average  | LINE  |
| 9              | 0.88           | 12.01                   | 9.44                   | 0.03                  | 10.01                              | 31.49                     | 56.00                   | -24.51                | QP       | LINE  |
| 10             | 0.88           | 4.79                    | 9.44                   | 0.03                  | 10.01                              | 24.27                     | 46.00                   | -21.73                | Average  | LINE  |
| 11             | 4.98           | 13.49                   | 9.48                   | 0.08                  | 10.01                              | 33.06                     | 56.00                   | -22.94                | QP       | LINE  |
| 12             | 4.98           | 8.01                    | 9.48                   | 0.08                  | 10.01                              | 27.58                     | 46.00                   | -18.42                | Average  | LINE  |

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 5# Shield Room

D:\2021 report data\Q21030302-1E\RF FCC CE.EM6

**Test Date** : 2021-03-05

**Tested By** : Junchang Du

**EUT** : Wireless Speaker

**Model Number** : EDF100008

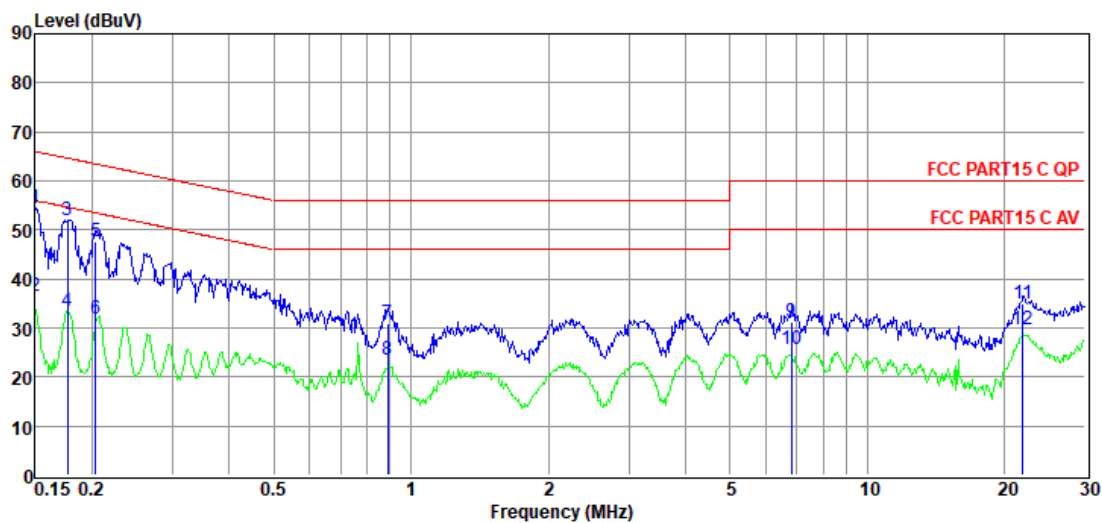
**Power Supply** : AC 120V/60Hz

**Test Mode** : 5GWI-FI mode

**Condition** : Temp:24.5°C,Humi:55.5%,Press:100.1kPa  
a

**LISN** : 2020 ENV 216 2#/NEUTRAL

**Memo** :



| Item<br>(Mark) | Freq.<br>(MHz) | Read<br>Level<br>(dBμV) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Pulse<br>Limiter<br>Factor<br>(dB) | Result<br>Level<br>(dBμV) | Limit<br>Line<br>(dBμV) | Over<br>Limit<br>(dB) | Detector | Phase   |
|----------------|----------------|-------------------------|------------------------|-----------------------|------------------------------------|---------------------------|-------------------------|-----------------------|----------|---------|
| 1              | 0.15           | 34.92                   | 9.38                   | 0.02                  | 10.01                              | 54.33                     | 66.00                   | -11.67                | QP       | NEUTRAL |
| 2              | 0.15           | 17.10                   | 9.38                   | 0.02                  | 10.01                              | 36.51                     | 56.00                   | -19.49                | Average  | NEUTRAL |
| 3              | 0.18           | 32.40                   | 9.39                   | 0.02                  | 10.01                              | 51.82                     | 64.64                   | -12.82                | QP       | NEUTRAL |
| 4              | 0.18           | 13.98                   | 9.39                   | 0.02                  | 10.01                              | 33.40                     | 54.64                   | -21.24                | Average  | NEUTRAL |
| 5              | 0.20           | 28.32                   | 9.39                   | 0.02                  | 10.01                              | 47.74                     | 63.45                   | -15.71                | QP       | NEUTRAL |
| 6              | 0.20           | 12.57                   | 9.39                   | 0.02                  | 10.01                              | 31.99                     | 53.45                   | -21.46                | Average  | NEUTRAL |
| 7              | 0.89           | 11.36                   | 9.41                   | 0.03                  | 10.01                              | 30.81                     | 56.00                   | -25.19                | QP       | NEUTRAL |
| 8              | 0.89           | 4.03                    | 9.41                   | 0.03                  | 10.01                              | 23.48                     | 46.00                   | -22.52                | Average  | NEUTRAL |
| 9              | 6.81           | 11.62                   | 9.52                   | 0.09                  | 10.01                              | 31.24                     | 60.00                   | -28.76                | QP       | NEUTRAL |
| 10             | 6.81           | 6.17                    | 9.52                   | 0.09                  | 10.01                              | 25.79                     | 50.00                   | -24.21                | Average  | NEUTRAL |
| 11             | 21.95          | 15.05                   | 9.57                   | 0.16                  | 10.02                              | 34.80                     | 60.00                   | -25.20                | QP       | NEUTRAL |
| 12             | 21.95          | 10.08                   | 9.57                   | 0.16                  | 10.02                              | 29.83                     | 50.00                   | -20.17                | Average  | NEUTRAL |

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

## **11. Antenna Requirements**

### **11.1. Limit**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **11.2. Result**

The device used dedicated FPC antennas and there is no antenna other than that furnished by the responsible party shall be used with the device, maximum antenna gain is 2.65 dBi.

## 12. Dynamic Frequency Selection

### 12.1. Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

| Requirement                     | Operational Mode                |                                                                    |                                                      |
|---------------------------------|---------------------------------|--------------------------------------------------------------------|------------------------------------------------------|
|                                 | <input type="checkbox"/> Master | <input checked="" type="checkbox"/> Client Without Radar Detection | <input type="checkbox"/> Client with Radar Detection |
| Non-Occupancy Period            | Yes                             | Not required                                                       | Yes                                                  |
| DFS Detection Threshold         | Yes                             | Not required                                                       | Yes                                                  |
| Channel Availability Check Time | Yes                             | Not required                                                       | Not required                                         |
| U-NII Detection Bandwidth       | Yes                             | Not required                                                       | Yes                                                  |

Table 2: Applicability of DFS requirements during normal operation

| Requirement                       | Operational Mode                                                      |                                                                    |
|-----------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
|                                   | <input type="checkbox"/> Master Device or Client with Radar Detection | <input checked="" type="checkbox"/> Client Without Radar Detection |
| DFS Detection Threshold           | Yes                                                                   | Not required                                                       |
| Channel Closing Transmission Time | Yes                                                                   | Yes                                                                |
| Channel Move Time                 | Yes                                                                   | Yes                                                                |
| U-NII Detection Bandwidth         | Yes                                                                   | Not required                                                       |

|                                                                   |                                                                       |                                                                    |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| Additional requirements for devices with multiple bandwidth modes | <input type="checkbox"/> Master Device or Client with Radar Detection | <input checked="" type="checkbox"/> Client Without Radar Detection |
| U-NII Detection Bandwidth and Statistical Performance Check       | All BW modes must be tested                                           | Not required                                                       |
| Channel Move Time and Channel Closing Transmission Time           | Test using widest BW mode available                                   | Test using the widest BW mode available for the link               |
| All other tests                                                   | Any single BW mode                                                    | Not required                                                       |

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

## 12.2. Limit

### (1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value (See Notes 1, 2, and 3) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -64 dBm                       |
| EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -62 dBm                       |
| EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                         | -64 dBm                       |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                               |

### (2) DFS Response Requirements

Table 4: DFS Response Requirement Values

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Value                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Minimum 30 minutes                                                                                        |
| Channel Availability Check Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60 seconds                                                                                                |
| Channel Move Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 seconds<br>See Note 1.                                                                                 |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |
| <p>Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p> |                                                                                                           |

## 12.3. Parameters of radar test waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                                                                                                                                                                                                                                                                                         | Pulse Width (μsec) | PRI (μsec) | Number of Pulses                                                                                | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|-------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                                                                                                                                                                                                                                                                                                                                                                                                  | 1                  | 1428       | 18                                                                                              | See Note 1                                 | See Note 1               |
| 1                                                                                                                                                                                                                                                                                                                                                                                                  | 1                  | Test A     | Roundup $\left\{ \frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\}$ | 60%                                        | 30                       |
|                                                                                                                                                                                                                                                                                                                                                                                                    |                    | Test B     |                                                                                                 |                                            |                          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                  | 1-5                | 150-230    | 23-29                                                                                           | 60%                                        | 30                       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                  | 6-10               | 200-500    | 16-18                                                                                           | 60%                                        | 30                       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                  | 11-20              | 200-500    | 12-16                                                                                           | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4)                                                                                                                                                                                                                                                                                                                                                                        |                    |            |                                                                                                 | 80%                                        | 120                      |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.<br>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                    |            |                                                                                                 |                                            |                          |

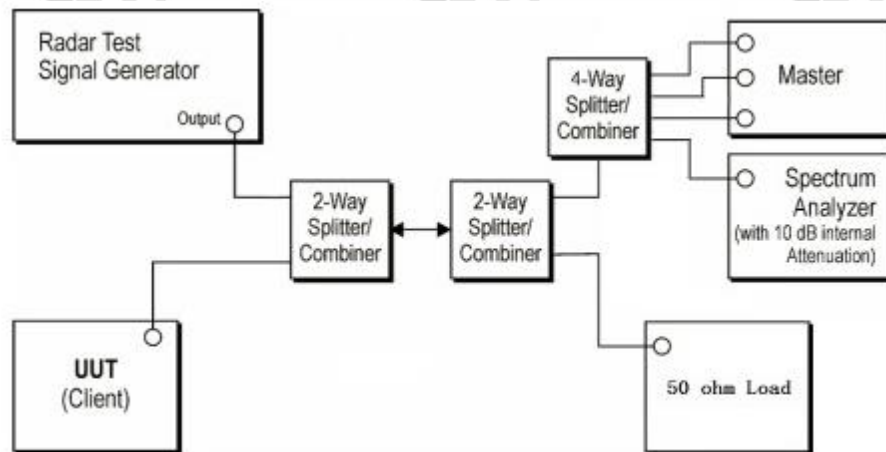
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

#### 12.4. Calibration of radar waveform

Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The interference Radar Detection Threshold Level is  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$  that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

## Conducted Calibration Setup:

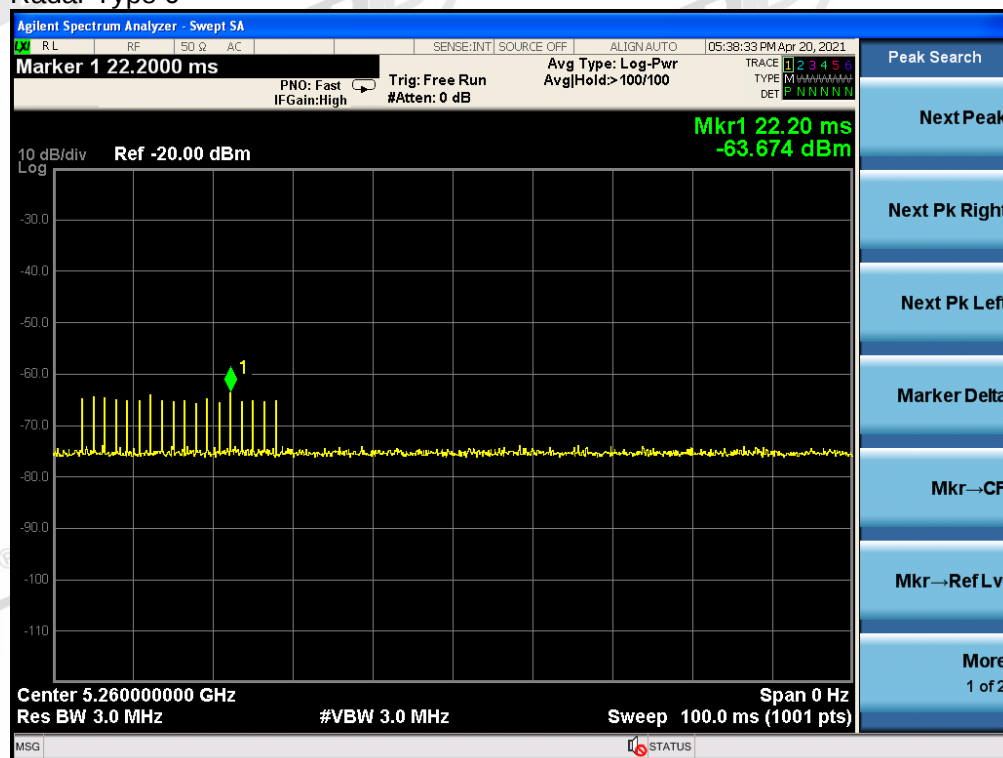


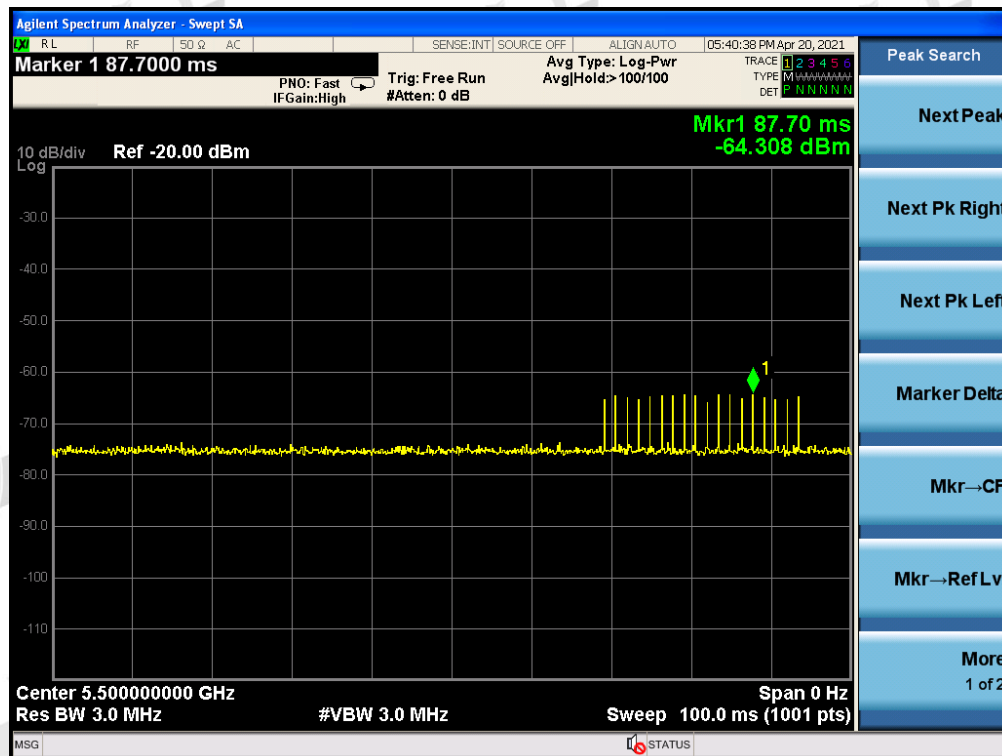
Note: 1. Use the software "Web" to set the frequency channel.

2. EUT is not support TPC and not with Radar detection.

## Radar Waveform Calibration Result:

## Radar Type 0





| Trial List Table - FCC-13-22   |          |            |                  |          |                  |                      |
|--------------------------------|----------|------------|------------------|----------|------------------|----------------------|
| Save Load Trigger Download All |          |            |                  |          |                  |                      |
| Sample Rate 10 MHz             |          |            |                  |          |                  |                      |
| Trial List                     |          |            |                  |          |                  |                      |
|                                | Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
| Download                       | 0        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 1        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 2        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 3        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 4        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 5        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 6        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 7        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 8        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 9        | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 10       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 11       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 12       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 13       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 14       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 15       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 16       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 17       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 18       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 19       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 20       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 21       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 22       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 23       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 24       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 25       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 26       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |
| Download                       | 27       | Type 0     | 1.0              | 1428.0   | 18               | 25704.0              |

## 12.5. Channel closing transmission time, channel move time and non-occupancy period

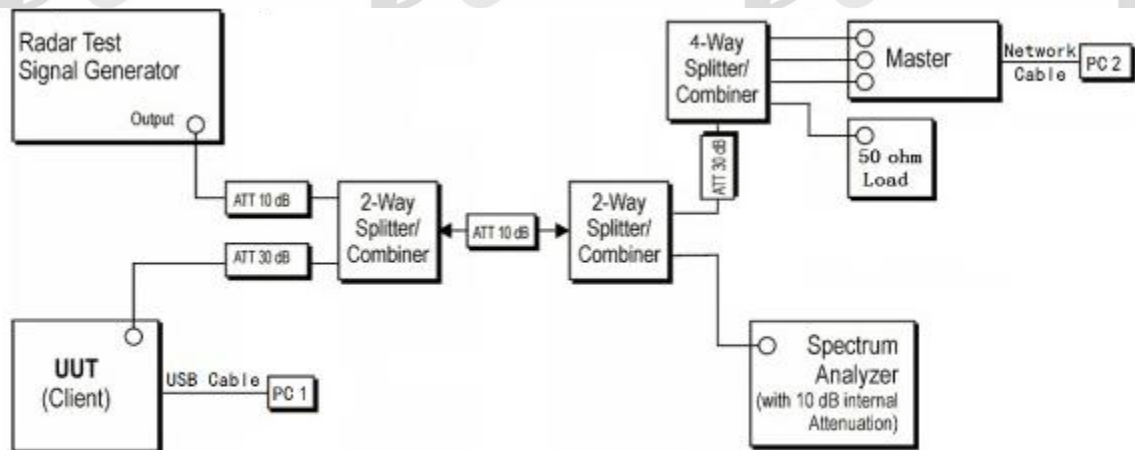
Block diagram of test setup Test Procedure:

- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the
- (8) spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (0.3ms) = S (12000ms) / B (4000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C (ms) = N \times Dwell (0.3ms)$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

## 12.6. Test setup

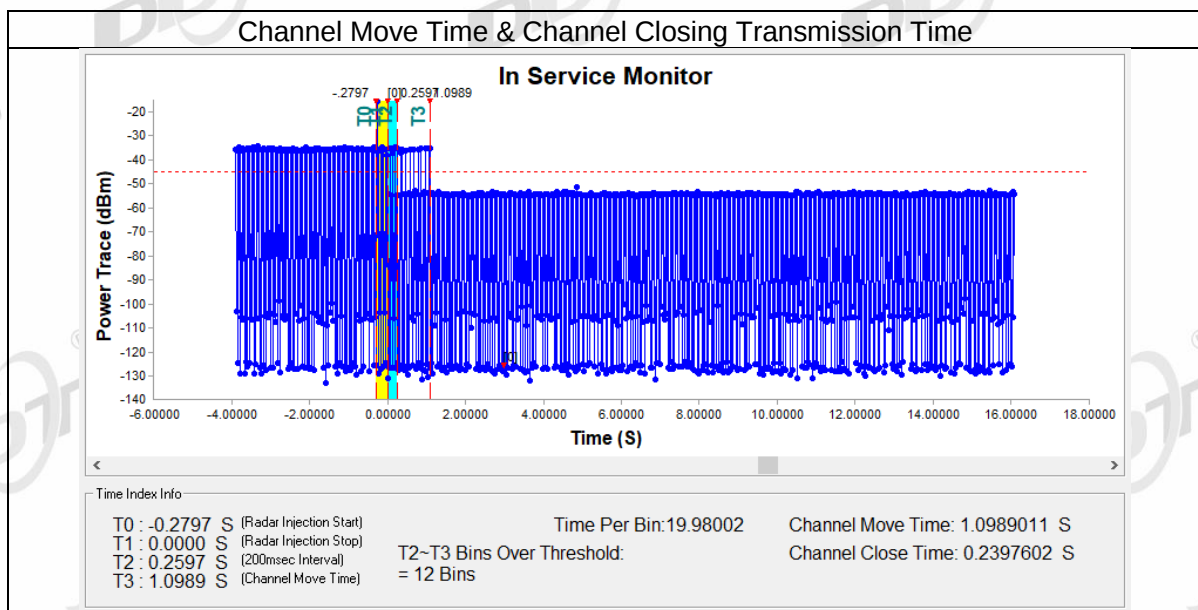
Setup for Client with injection at the Master

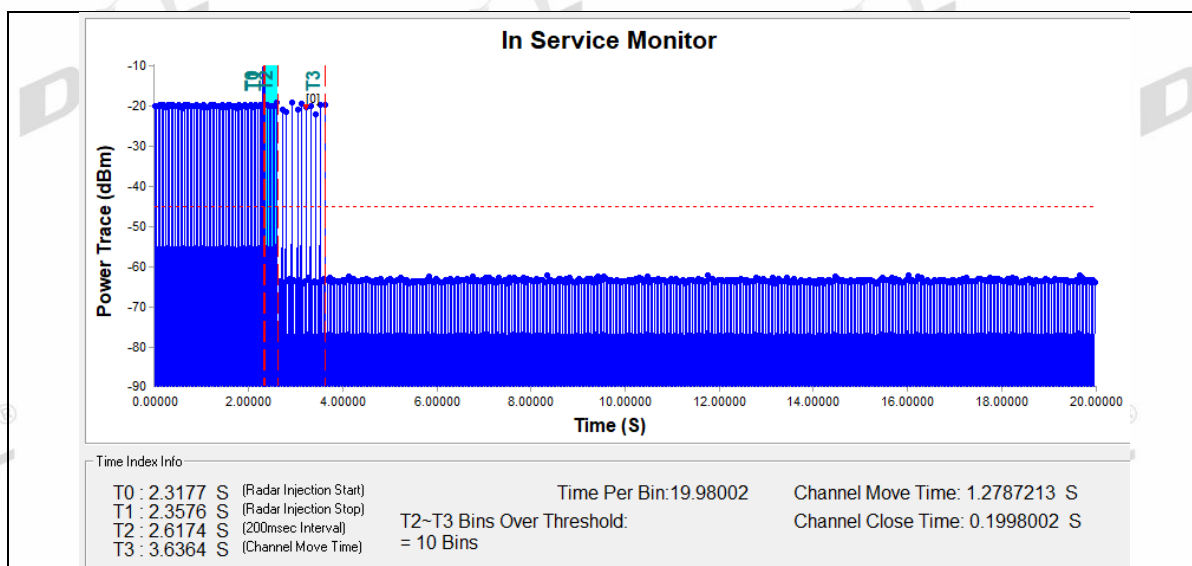


## 12.7. Test result

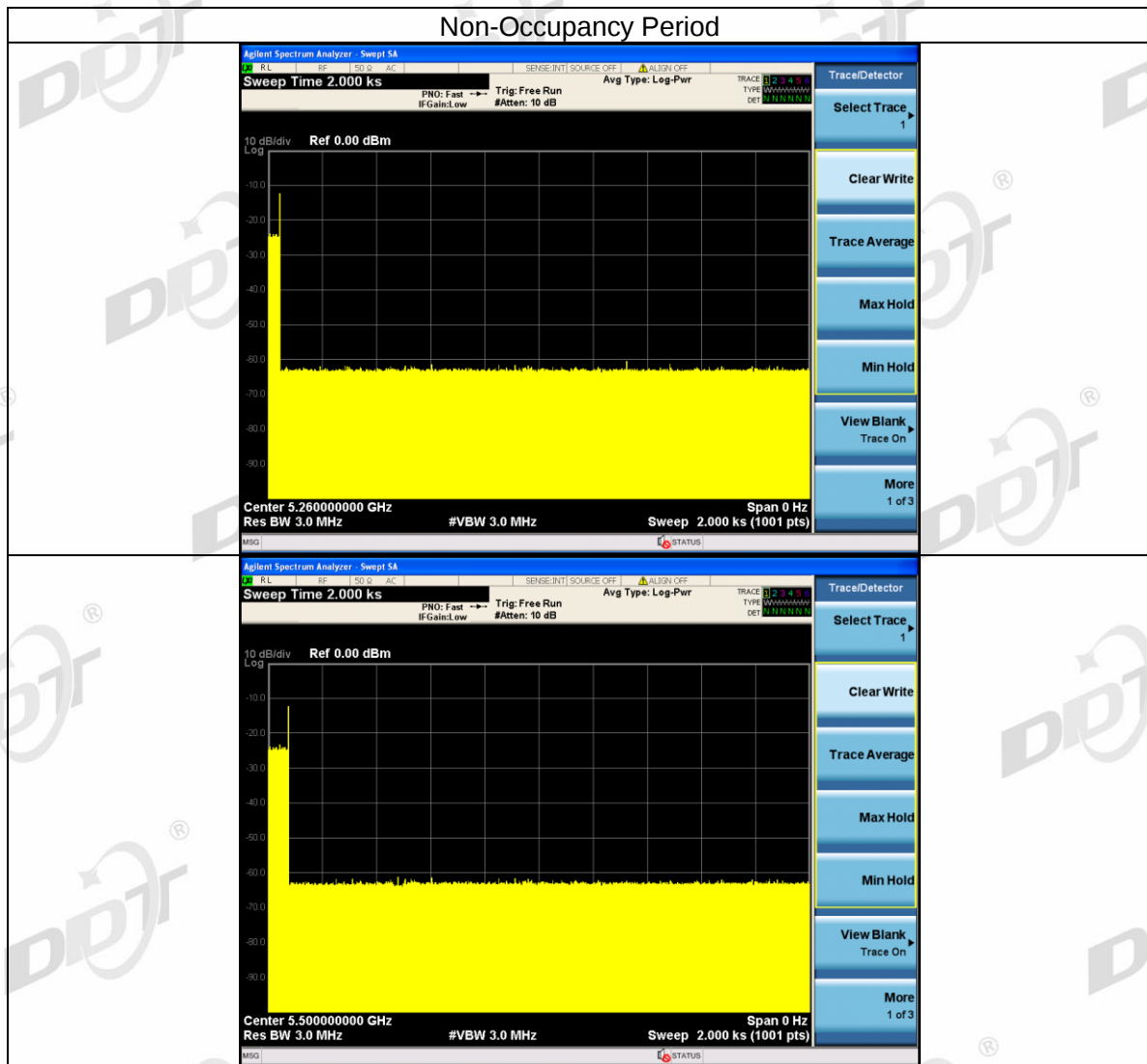
| BW/Channel  | Test Item                         | Test Result | Limit  | Results |
|-------------|-----------------------------------|-------------|--------|---------|
| 20M/5260MHz | Channel Move Time                 | 1.10 s      | <10s   | pass    |
|             | Channel Closing Transmission Time | 0.24 s      | <0.26s | pass    |
| 20M/5500MHz | Channel Move Time                 | 1.28 s      | <10s   | pass    |
|             | Channel Closing Transmission Time | 0.20 s      | <0.26s | pass    |

Test plots as follows:





| BW/Channel  | Test Item            | Test Result | Limit | Results |
|-------------|----------------------|-------------|-------|---------|
| 20M/5260MHz | Non-Occupancy Period | >30min      | 30min | pass    |
| 20M/5500MHz | Non-Occupancy Period | >30min      | 30min | pass    |



### 13. Test setup photograph



#### 14. Photos of the EUT































END OF REPORT