

Test Report No.10052384 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 10052384AppendixD)

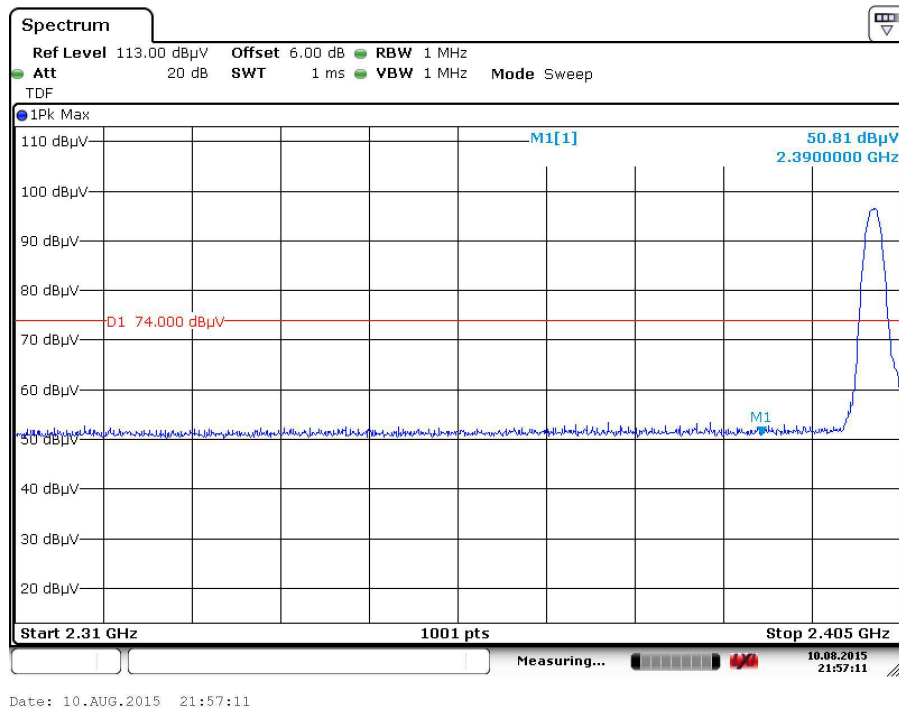
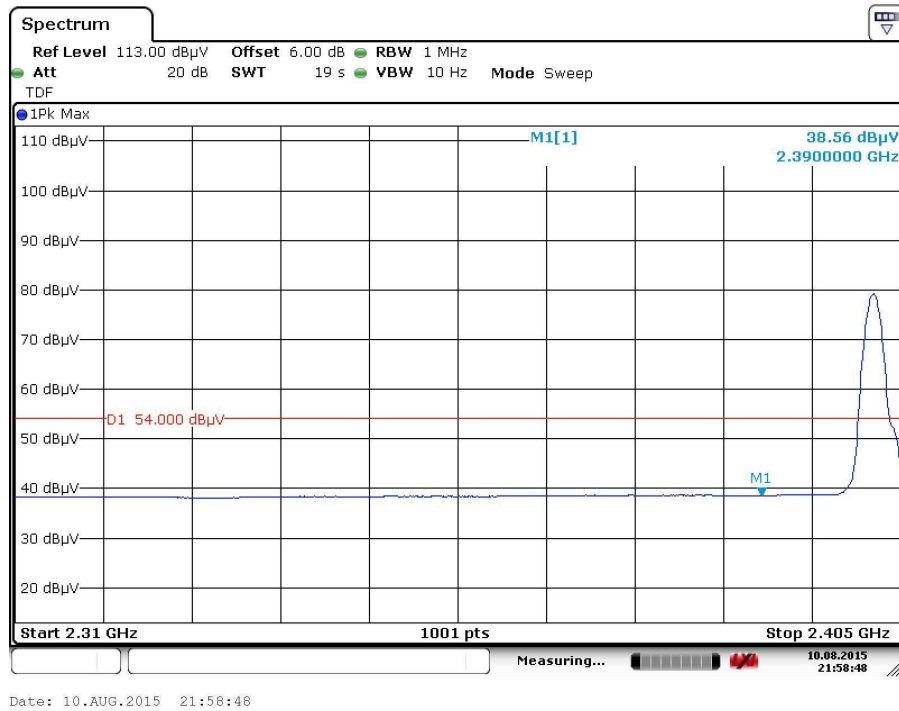
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Spurious Emissions, Band Edges, 2.35-2.5G

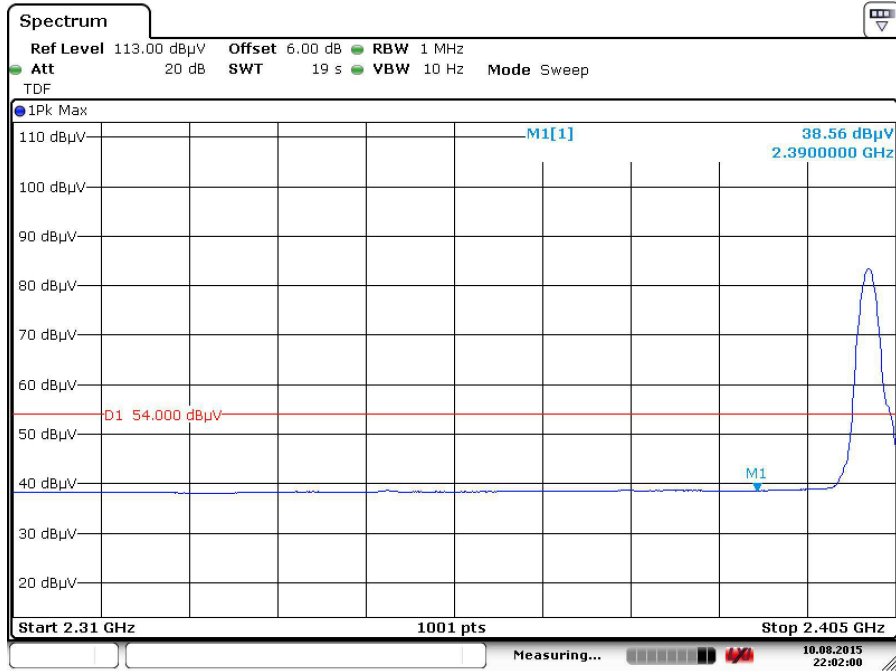
Radiated Bandedge (GFSK)

Low Channel (Hor)

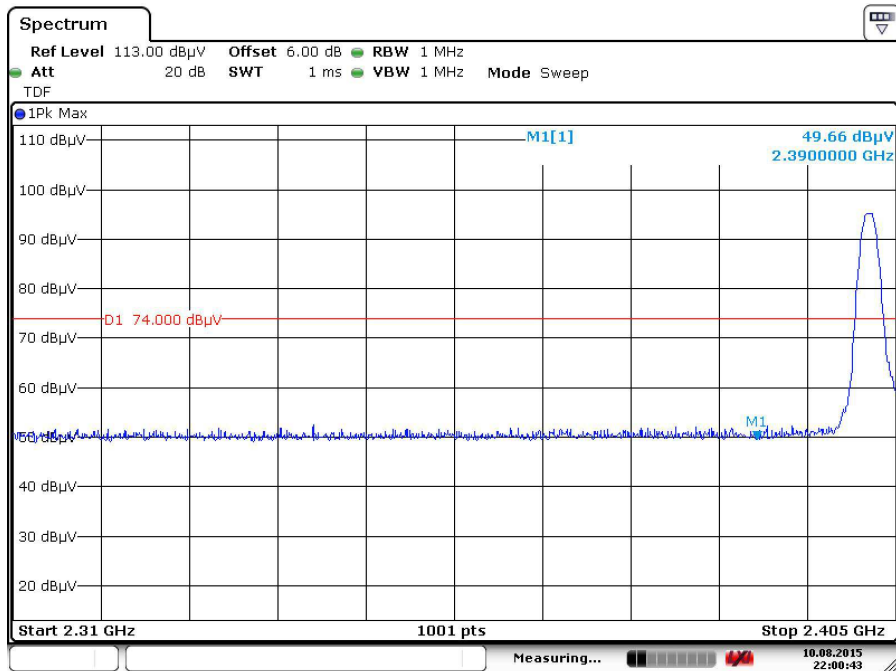


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 10.AUG.2015 22:02:00

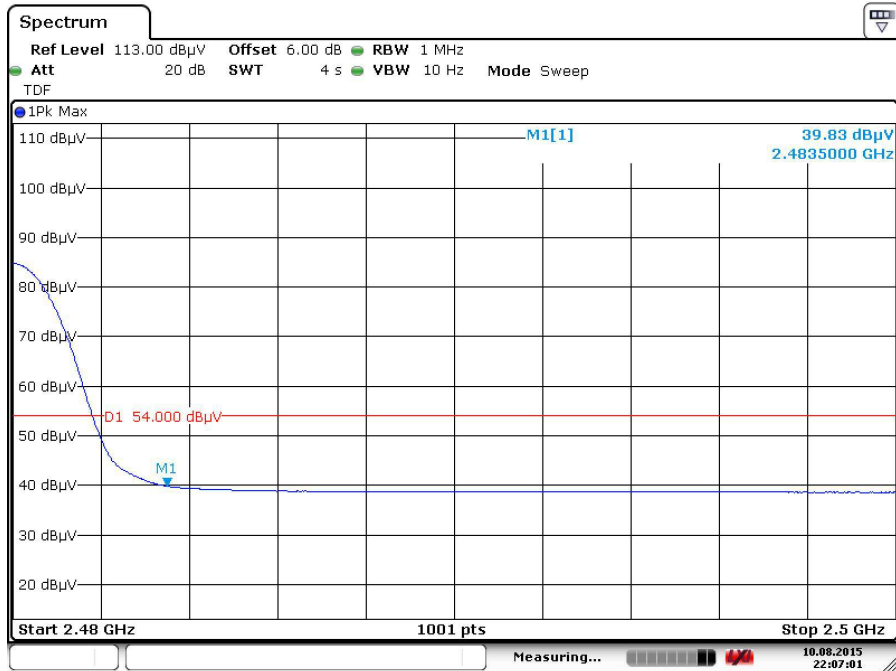


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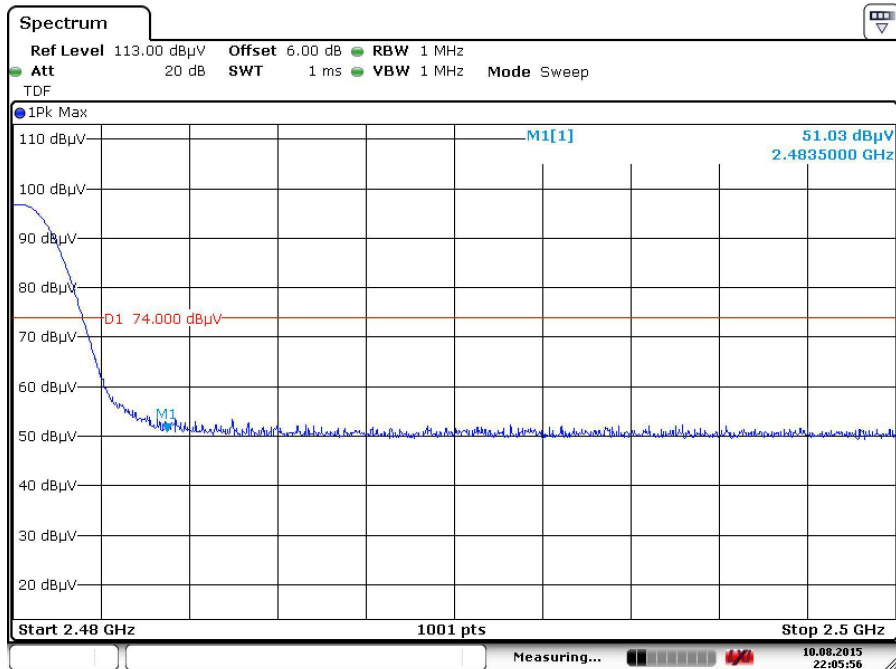
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (GFSK)

High Channel (Hor)



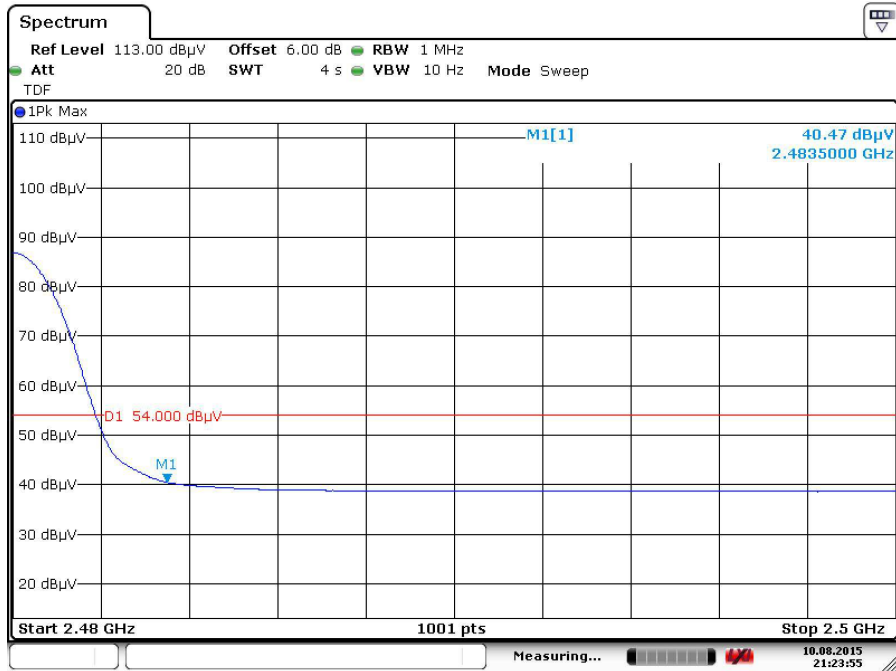
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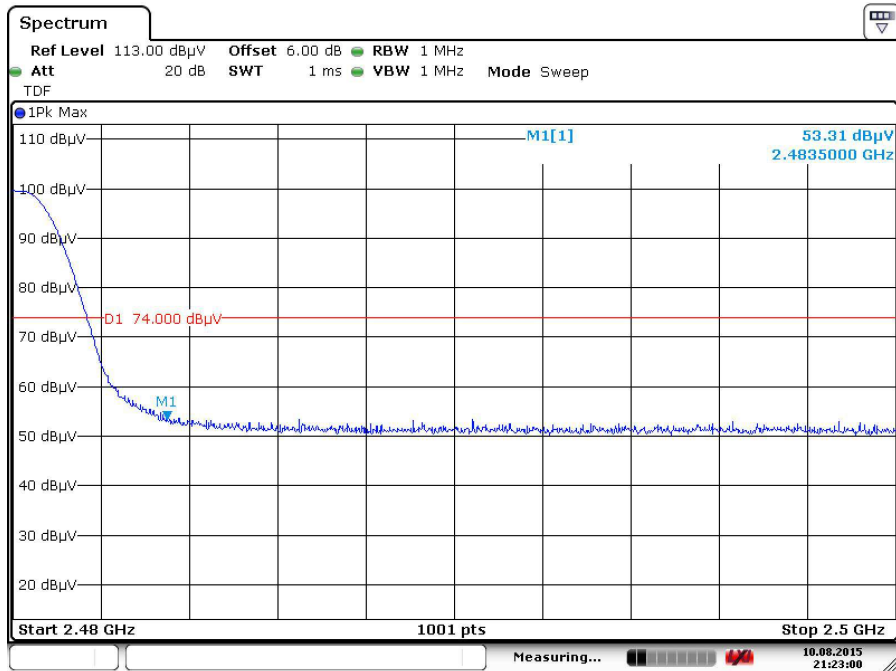
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Date: 10.AUG.2015 21:23:55

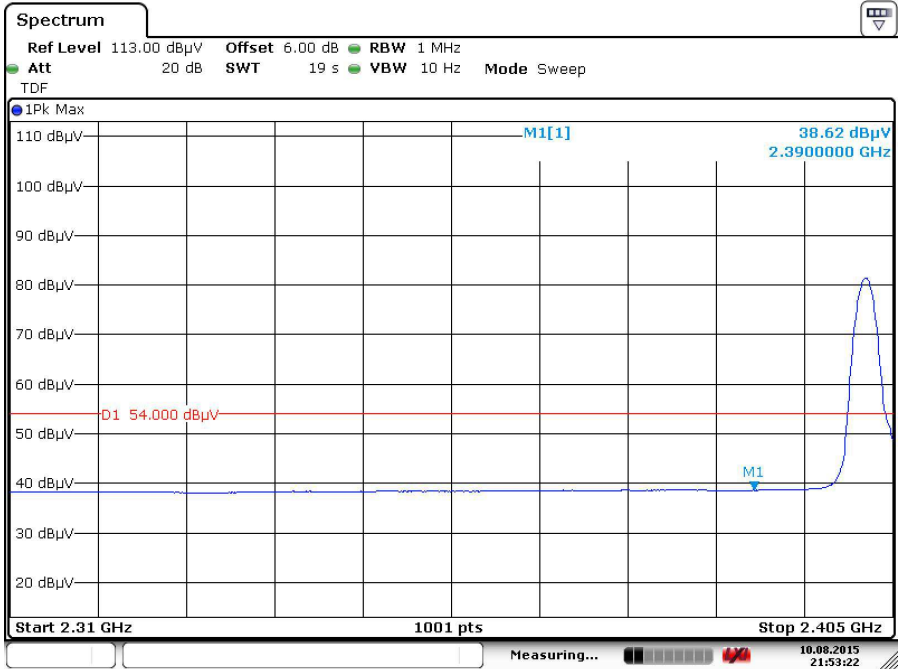


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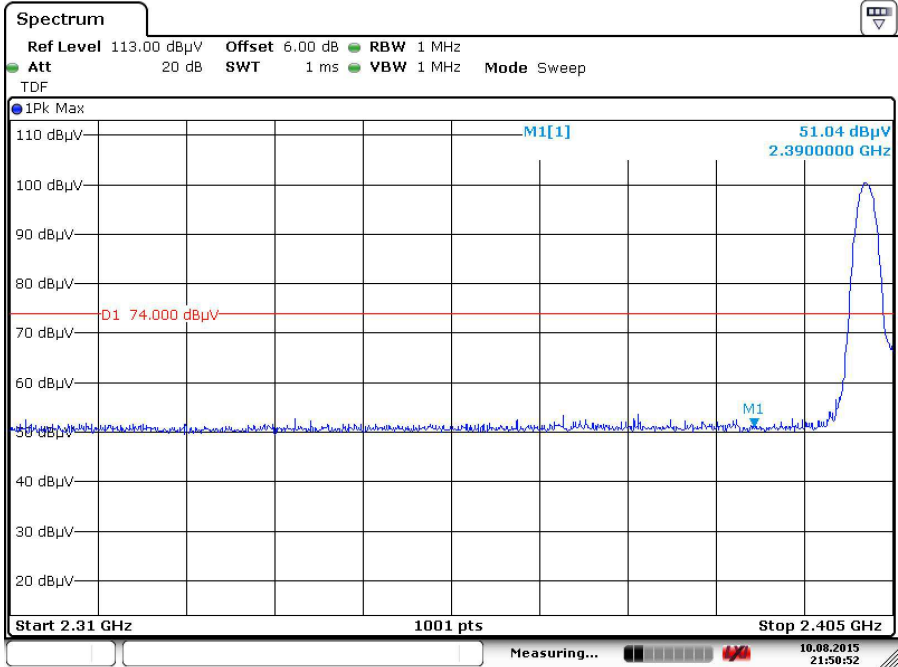
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (8DPSK)

Low Channel (Hor)



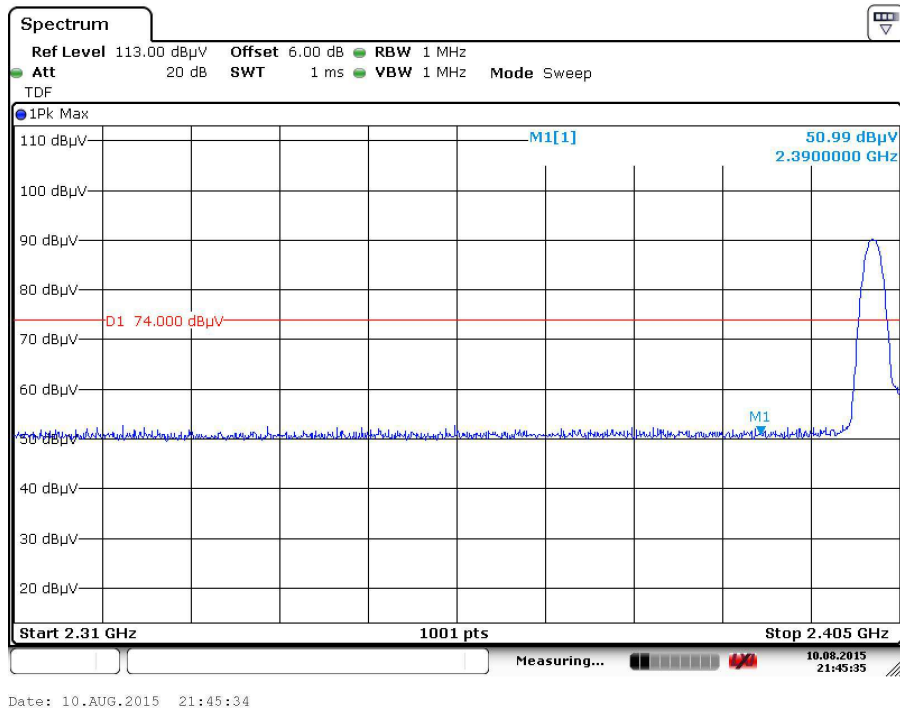
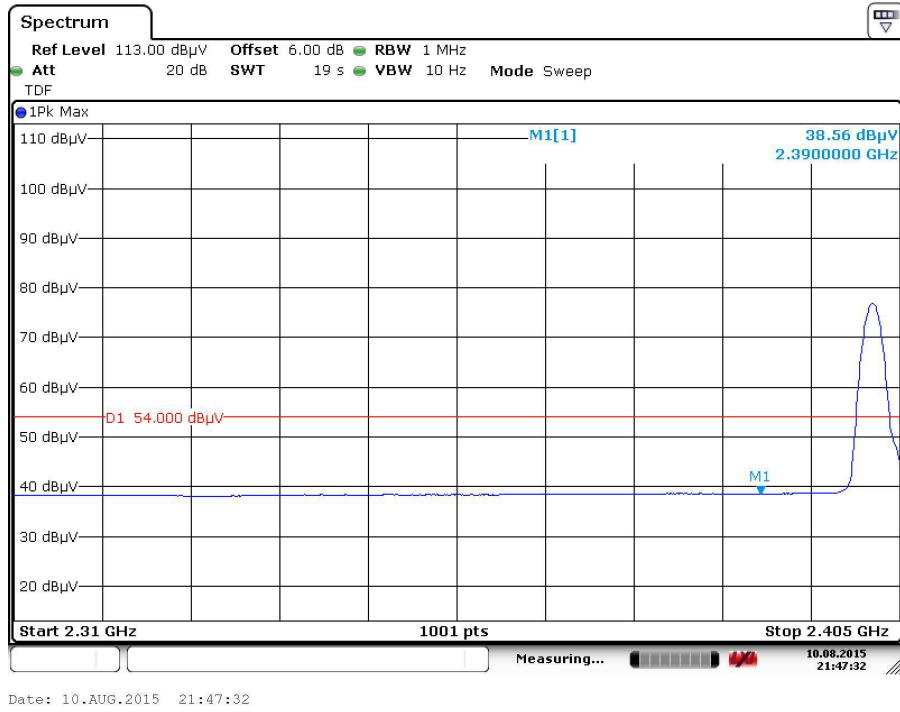
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Spurious Emissions, Band Edge, 2.35-2.5G

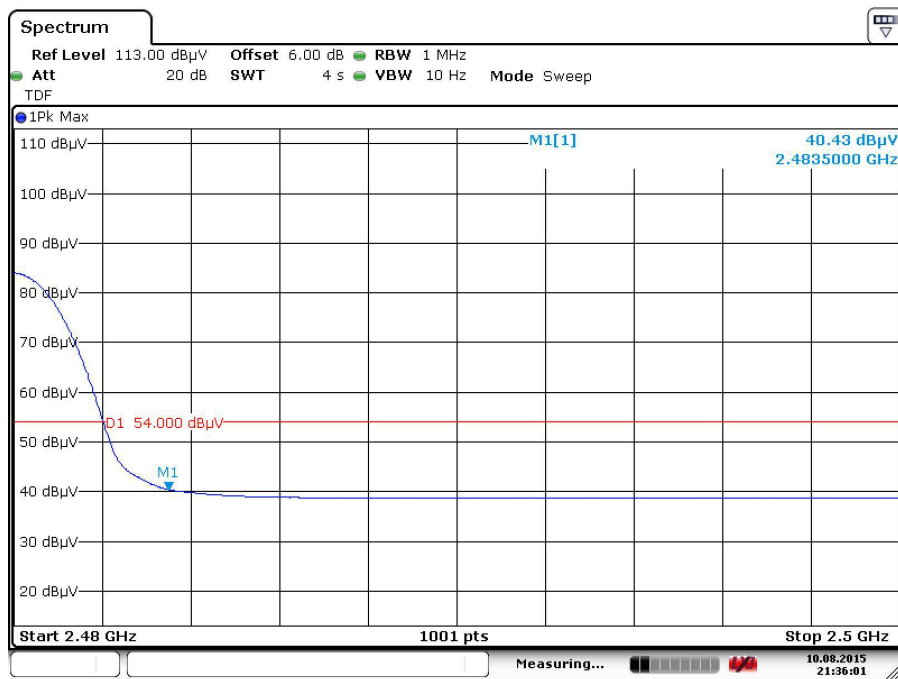
Low Channel (Ver)



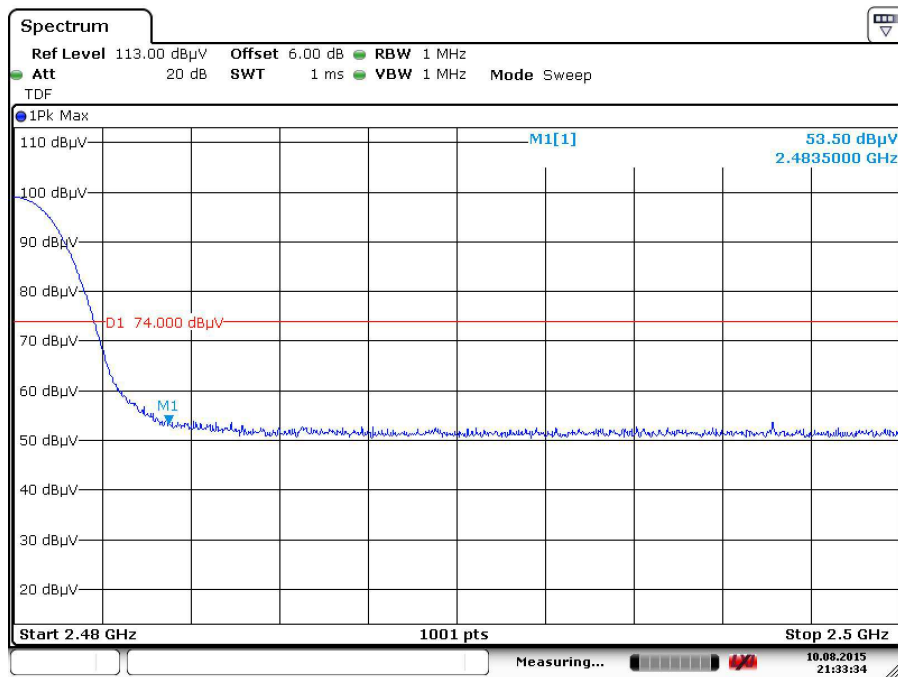
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (8DPSK)

High Channel (Hor)



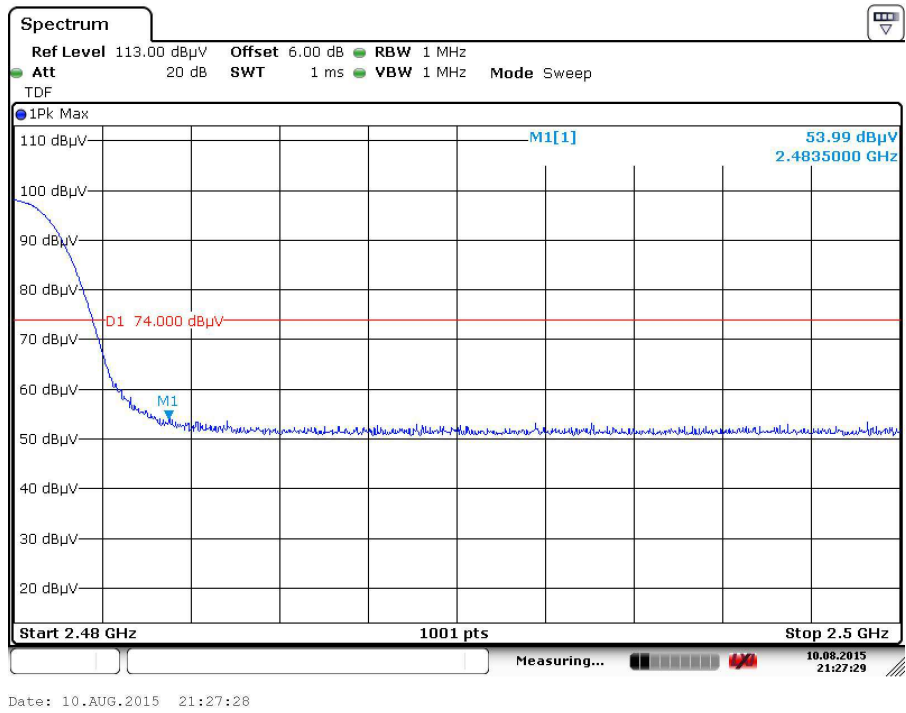
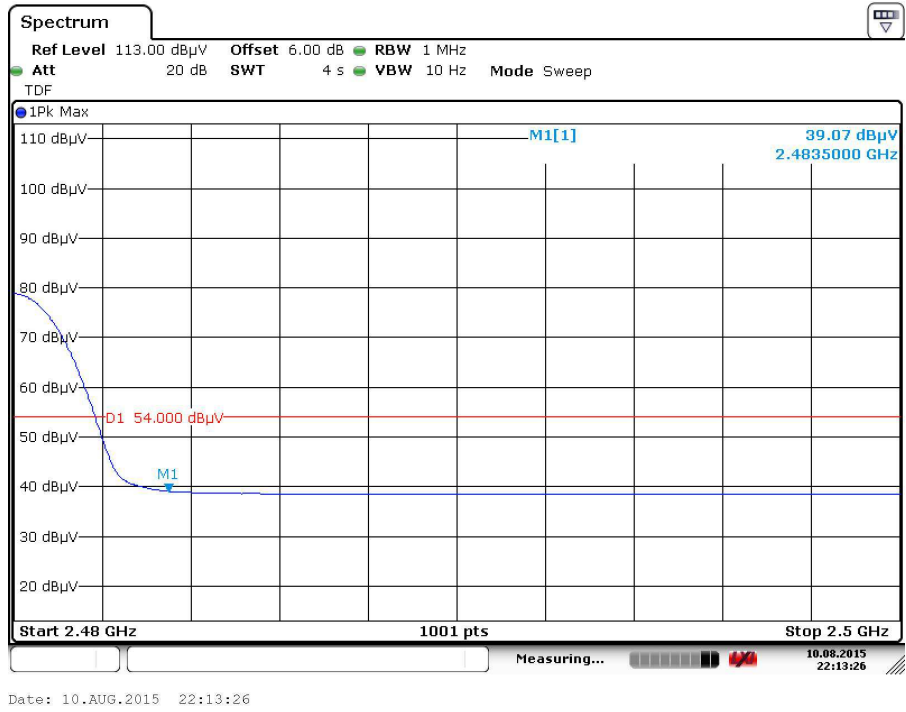
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Date: 10.AUG.2015 21:33:34

Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)

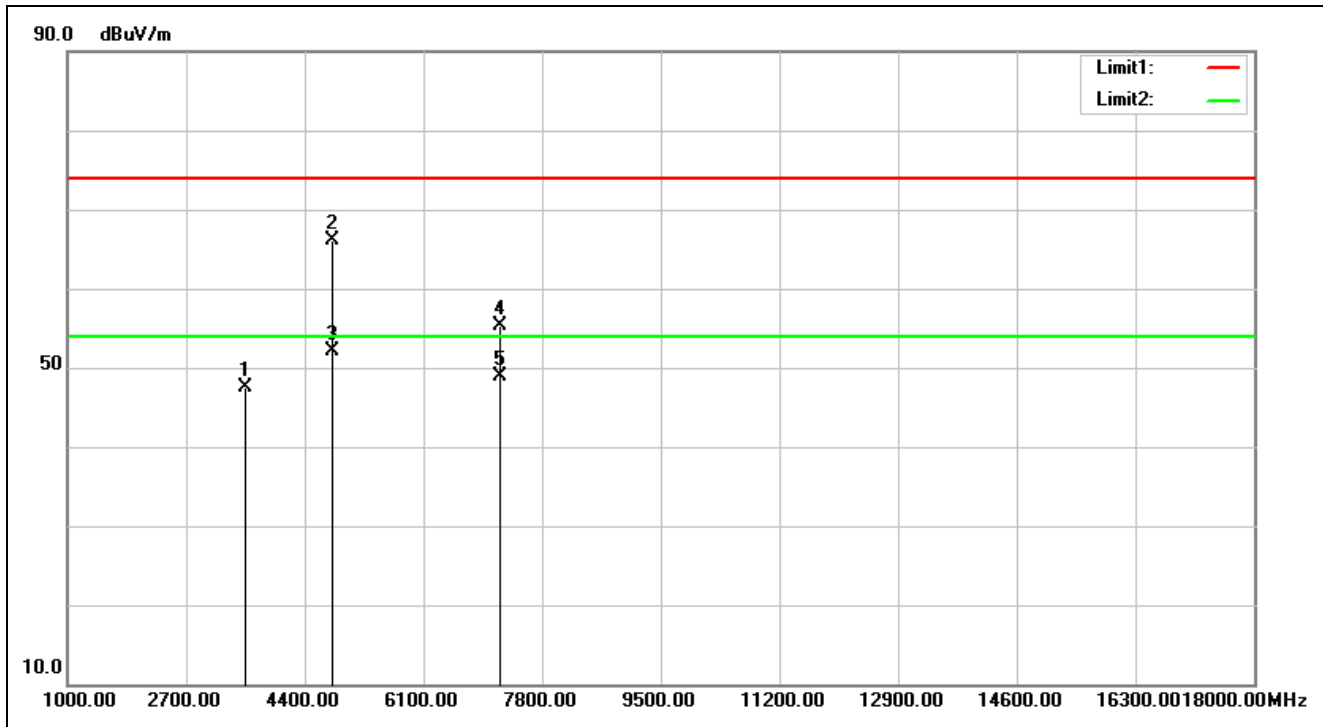


Spurious Emissions, Band Edge, 2.35-2.5G

Spurious Emissions, TX Mode, 1-18G

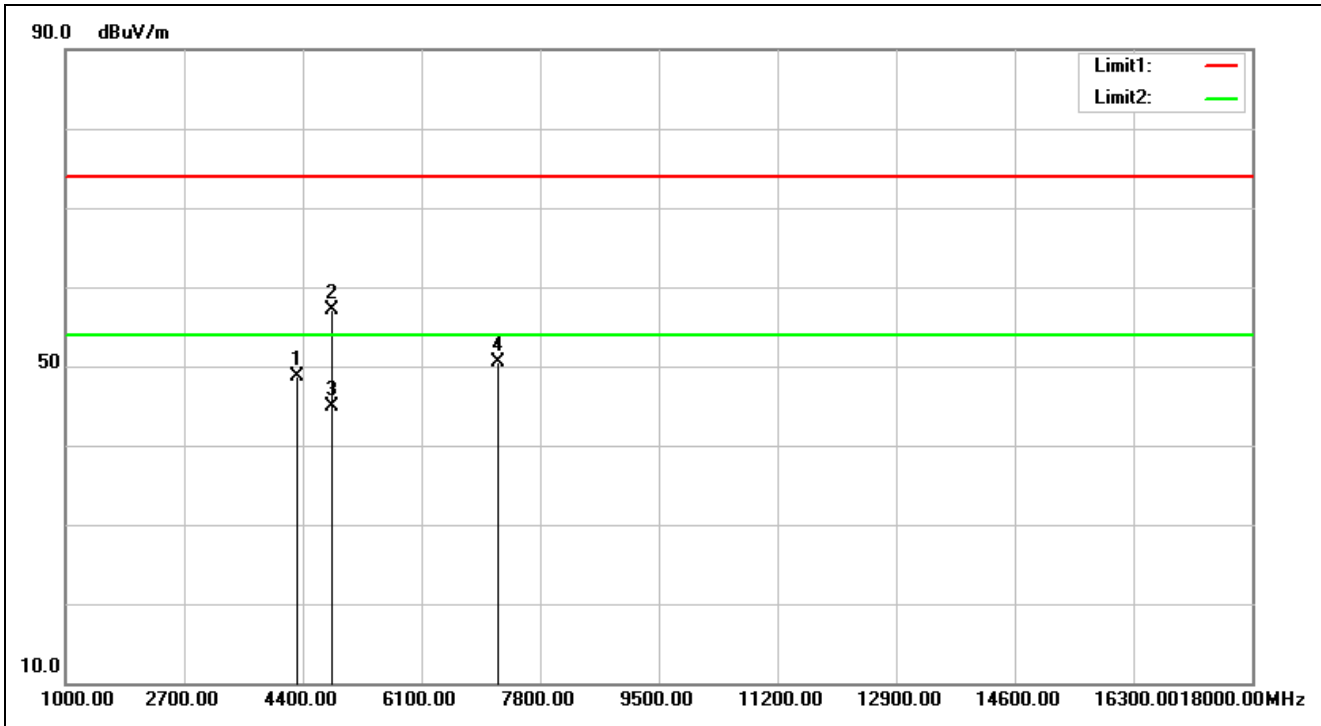


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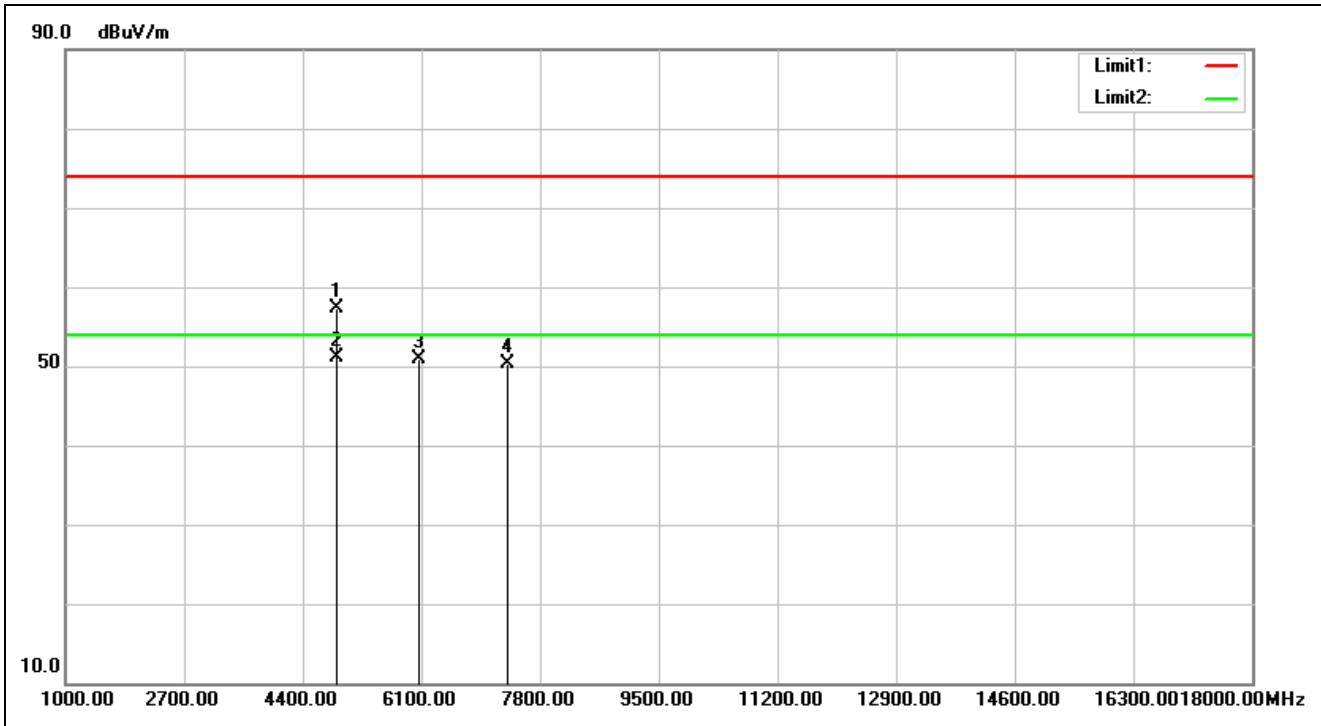
| | | | |
|-----------------------|--------------------|---------------------------|--------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 19:41:46 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2402 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 3550.000 | -5.49 | 52.93 | 47.44 | 74.00 | -26.56 | peak | 100 | 177 | |
| 2 | 4804.000 | -2.35 | 68.44 | 66.09 | 74.00 | -7.91 | peak | 100 | 121 | |
| 3 | 4804.000 | -2.35 | 54.39 | 52.04 | 54.00 | -1.96 | AVG | 100 | 121 | |
| 4 | 7206.000 | 5.78 | 49.44 | 55.22 | 74.00 | -18.78 | peak | 100 | 105 | |
| 5 | 7206.000 | 5.78 | 43.07 | 48.85 | 54.00 | -5.15 | AVG | 100 | 105 | |



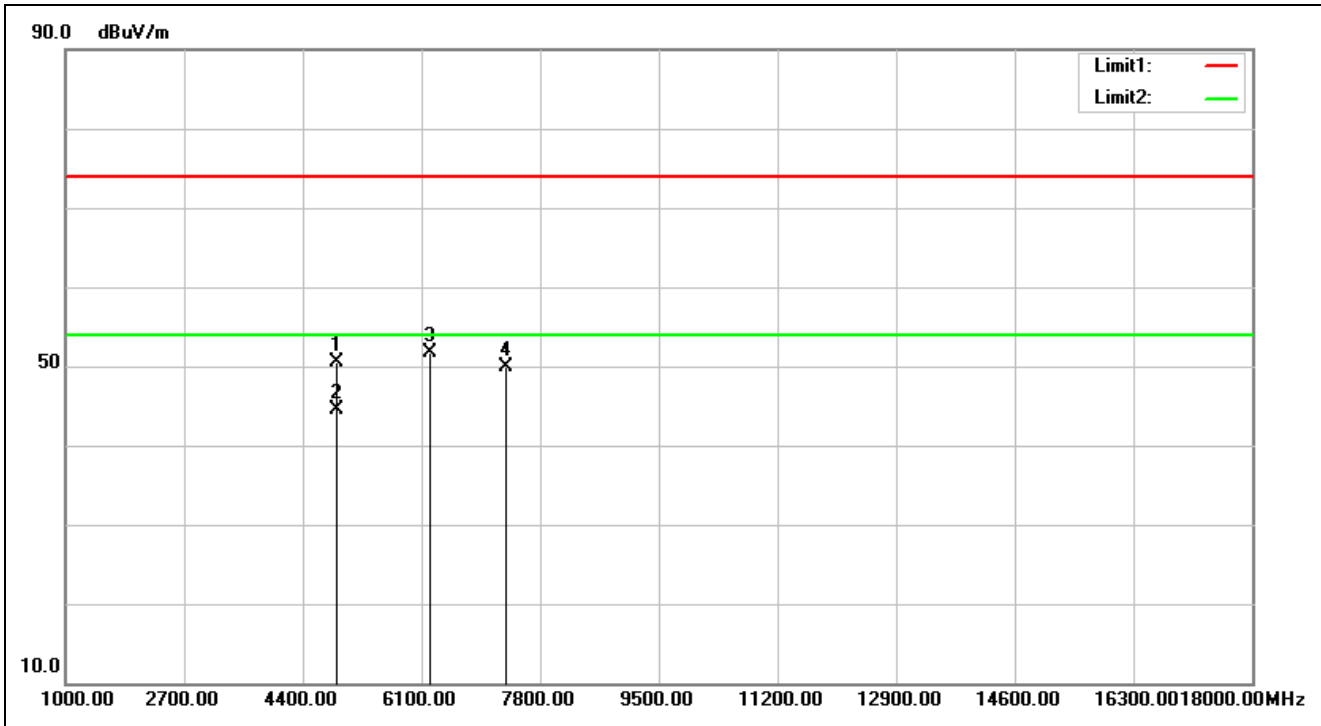
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 19:42:49 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2402 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4315.000 | -3.83 | 52.63 | 48.80 | 74.00 | -25.20 | peak | 100 | 327 | |
| 2 | 4804.000 | -2.35 | 59.47 | 57.12 | 74.00 | -16.88 | peak | 100 | 186 | |
| 3 | 4804.000 | -2.35 | 47.18 | 44.83 | 54.00 | -9.17 | AVG | 100 | 186 | |
| 4 | 7206.000 | 5.78 | 44.78 | 50.56 | 74.00 | -23.44 | peak | | | |



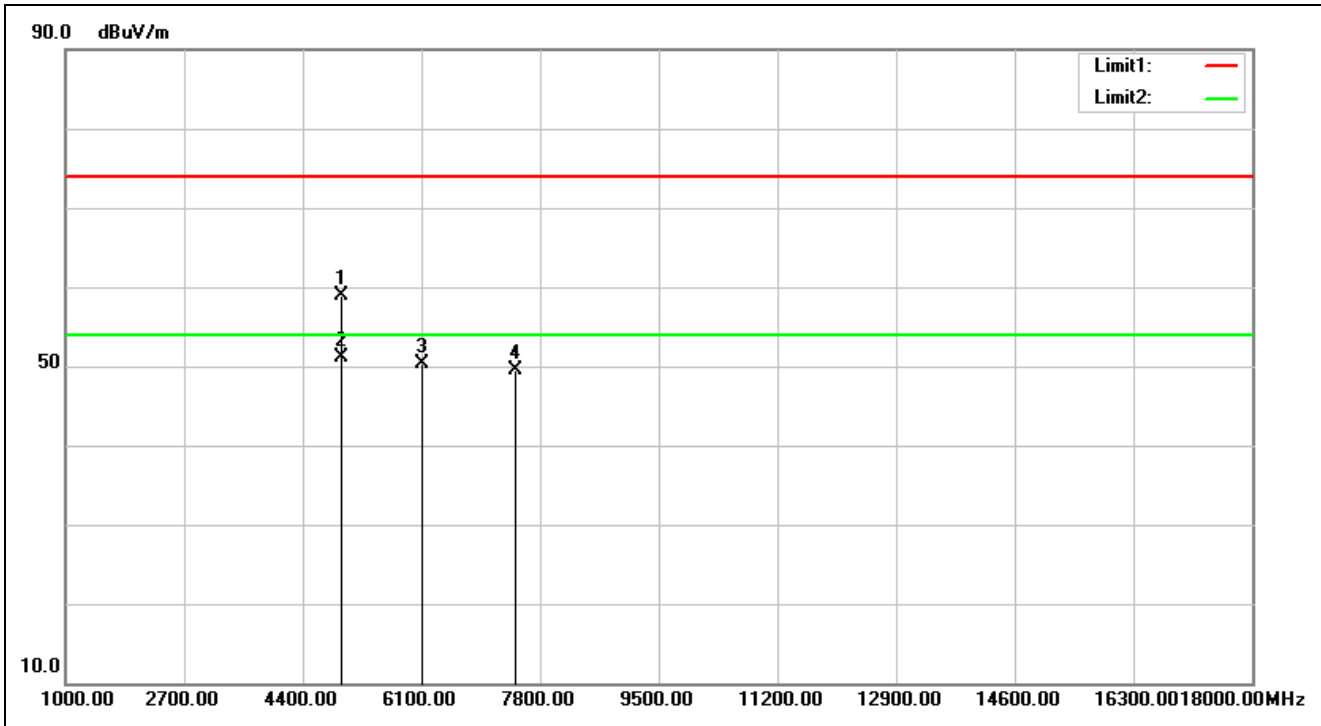
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 19:57:42 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2441 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4882.000 | -2.16 | 59.37 | 57.21 | 74.00 | -16.79 | peak | 100 | 108 | |
| 2 | 4882.000 | -2.16 | 53.26 | 51.10 | 54.00 | -2.90 | AVG | 100 | 108 | |
| 3 | 6066.000 | 4.34 | 46.57 | 50.91 | 74.00 | -23.09 | peak | 100 | 22 | |
| 4 | 7323.000 | 6.13 | 44.24 | 50.37 | 74.00 | -23.63 | peak | | | |



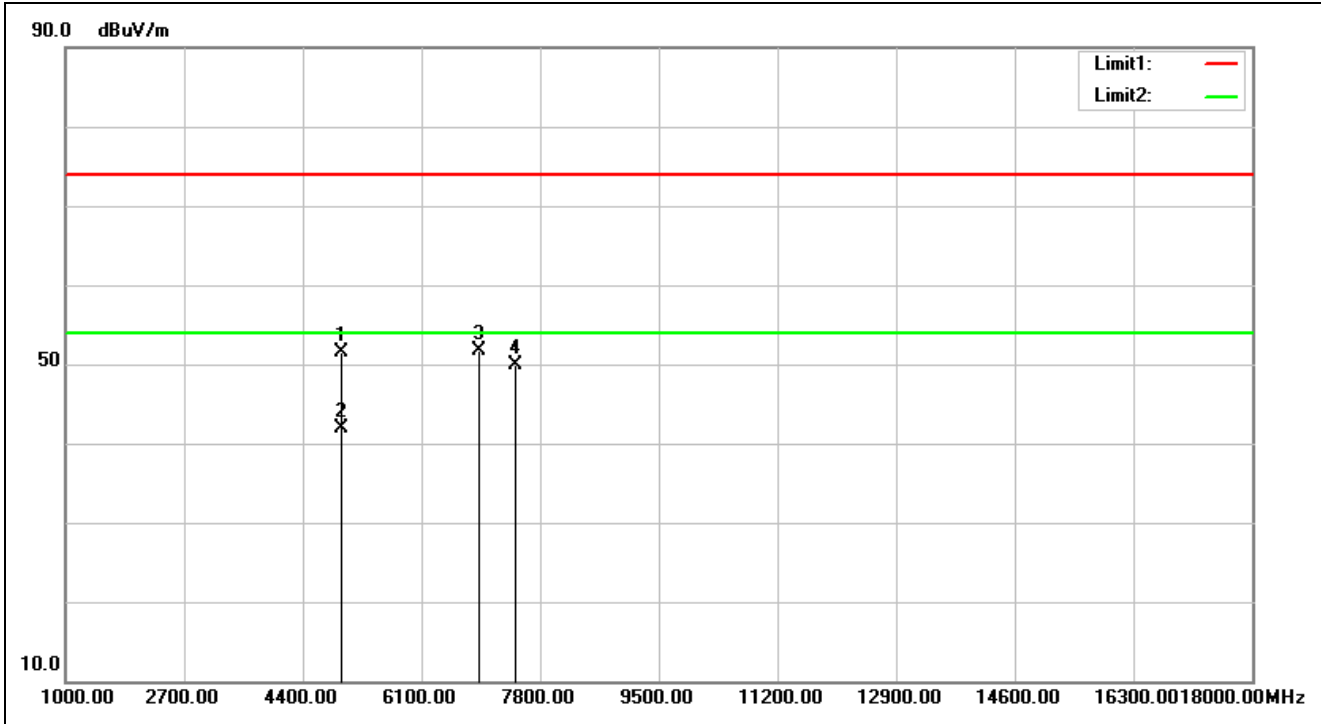
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 19:58:44 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2441 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4882.000 | -2.16 | 52.75 | 50.59 | 74.00 | -23.41 | peak | 100 | 255 | |
| 2 | 4882.000 | -2.16 | 46.64 | 44.48 | 54.00 | -9.52 | AVG | 100 | 255 | |
| 3 | 6219.000 | 4.93 | 46.70 | 51.63 | 74.00 | -22.37 | peak | 100 | 310 | |
| 4 | 7323.000 | 6.13 | 43.68 | 49.81 | 74.00 | -24.19 | peak | | | |



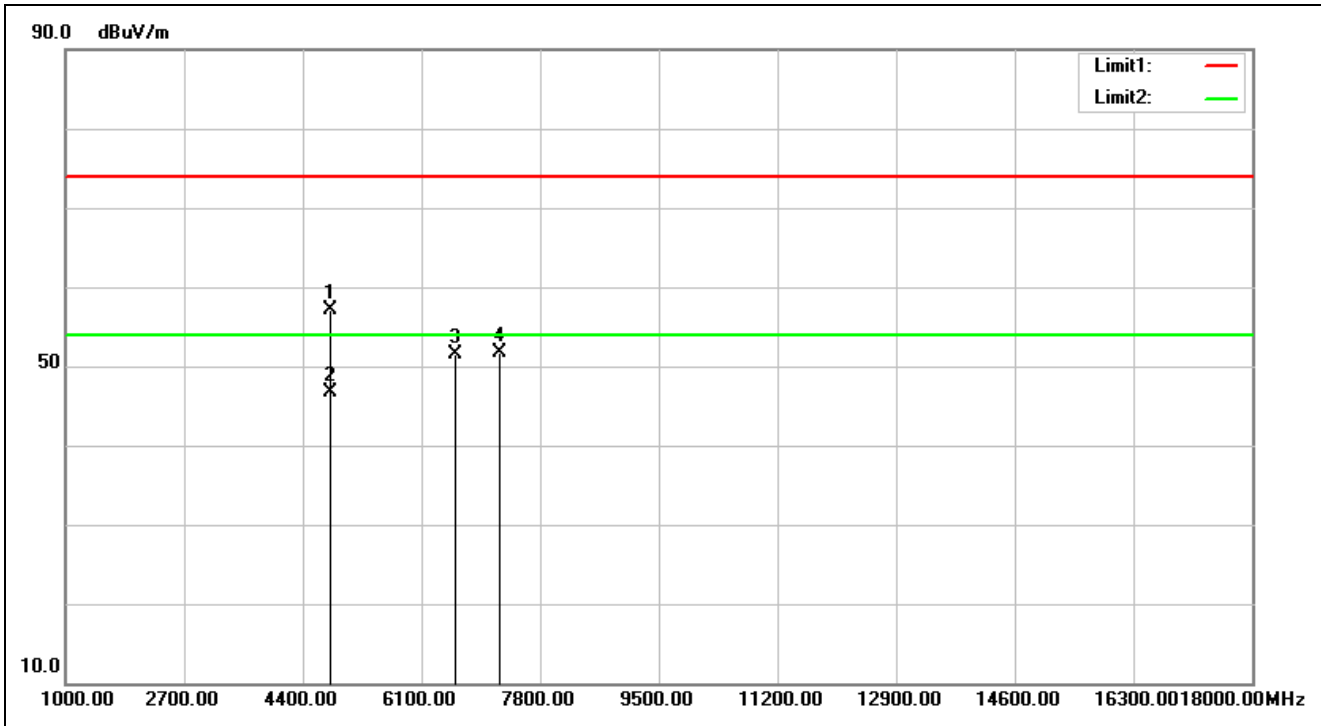
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:08:51 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2480 | | |
| Remark: | INT:59 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4960.000 | -1.97 | 60.83 | 58.86 | 74.00 | -15.14 | peak | 100 | 108 | |
| 2 | 4960.000 | -1.97 | 53.02 | 51.05 | 54.00 | -2.95 | AVG | 100 | 108 | |
| 3 | 6100.000 | 4.47 | 45.75 | 50.22 | 74.00 | -23.78 | peak | 100 | 285 | |
| 4 | 7440.000 | 6.47 | 43.08 | 49.55 | 74.00 | -24.45 | peak | | | |



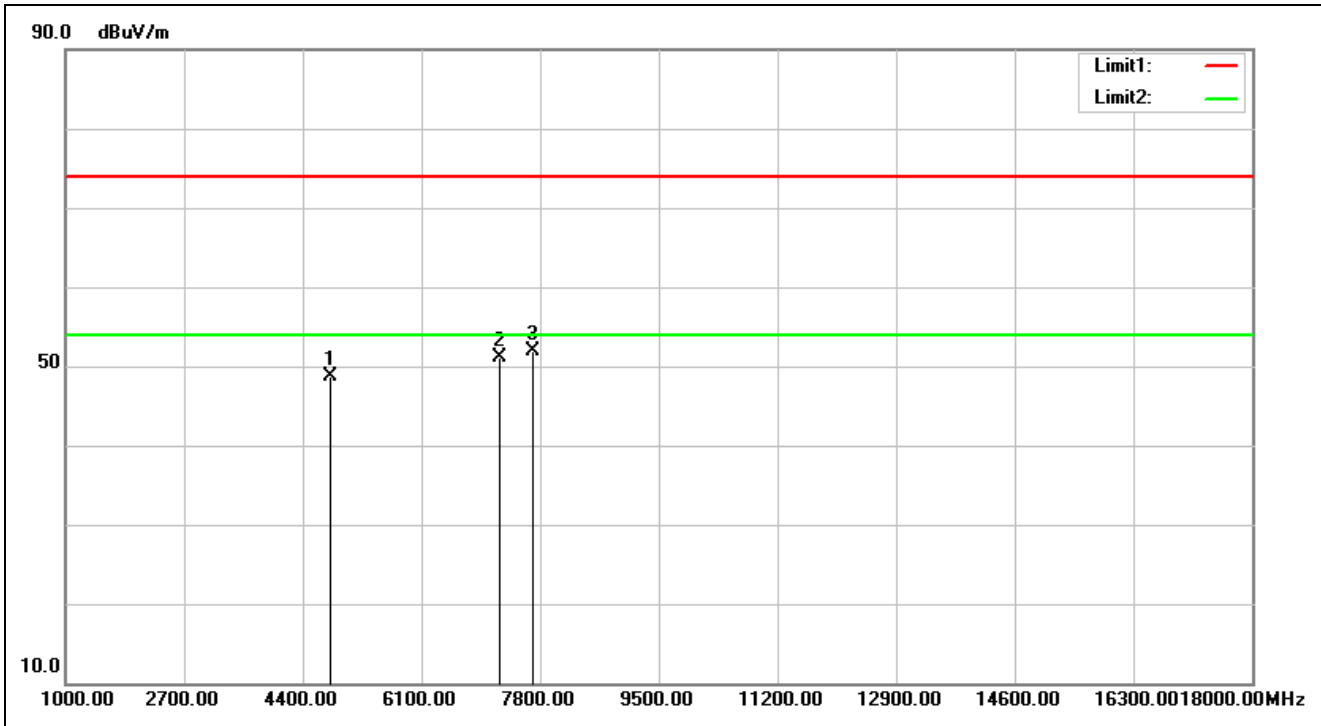
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:09:54 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2480 | | |
| Remark: | INT:59 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4960.000 | -1.97 | 53.47 | 51.50 | 74.00 | -22.50 | peak | 100 | 100 | |
| 2 | 4960.000 | -1.97 | 43.95 | 41.98 | 54.00 | -12.02 | AVG | 100 | 100 | |
| 3 | 6933.000 | 5.28 | 46.42 | 51.70 | 74.00 | -22.30 | peak | 100 | 310 | |
| 4 | 7440.000 | 6.47 | 43.45 | 49.92 | 74.00 | -24.08 | peak | | | |



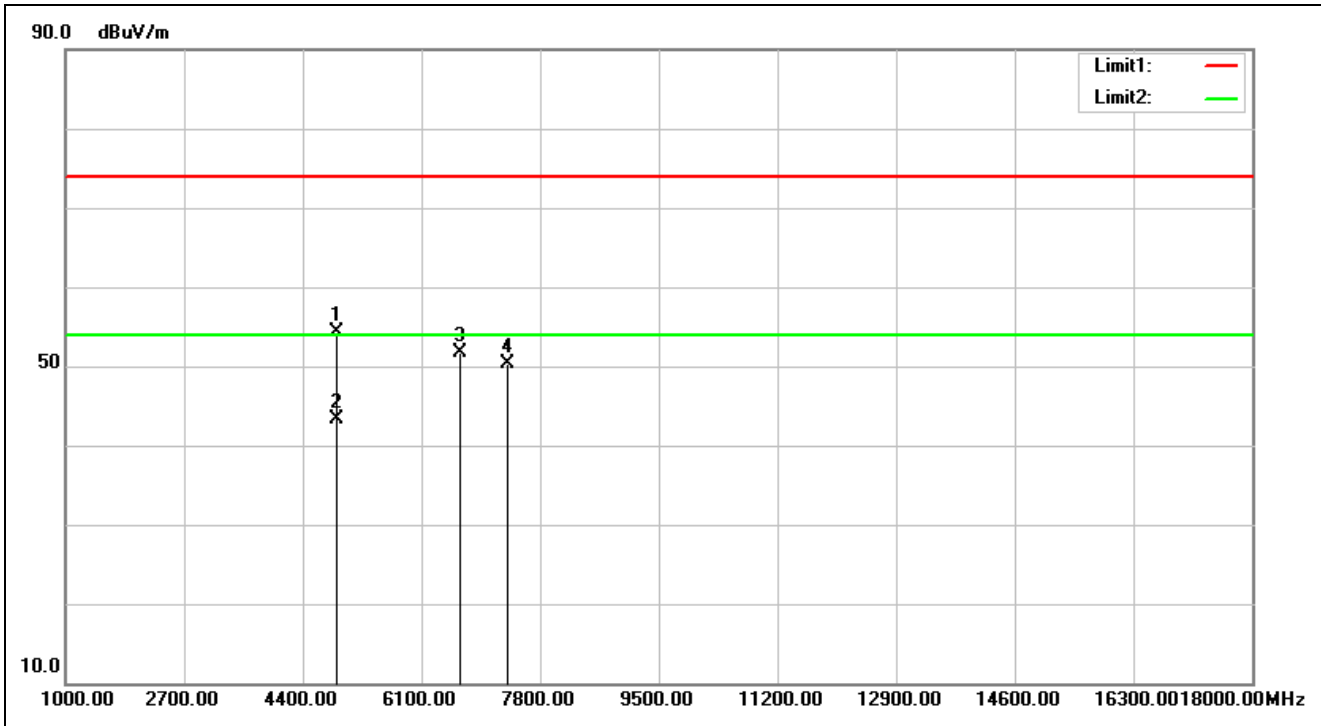
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:26:47 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2402 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4804.000 | -2.35 | 59.44 | 57.09 | 74.00 | -16.91 | peak | 100 | 97 | |
| 2 | 4804.000 | -2.35 | 49.11 | 46.76 | 54.00 | -7.24 | AVG | 100 | 97 | |
| 3 | 6593.000 | 5.87 | 45.60 | 51.47 | 74.00 | -22.53 | peak | 100 | 160 | |
| 4 | 7206.000 | 5.78 | 45.98 | 51.76 | 74.00 | -22.24 | peak | | | |



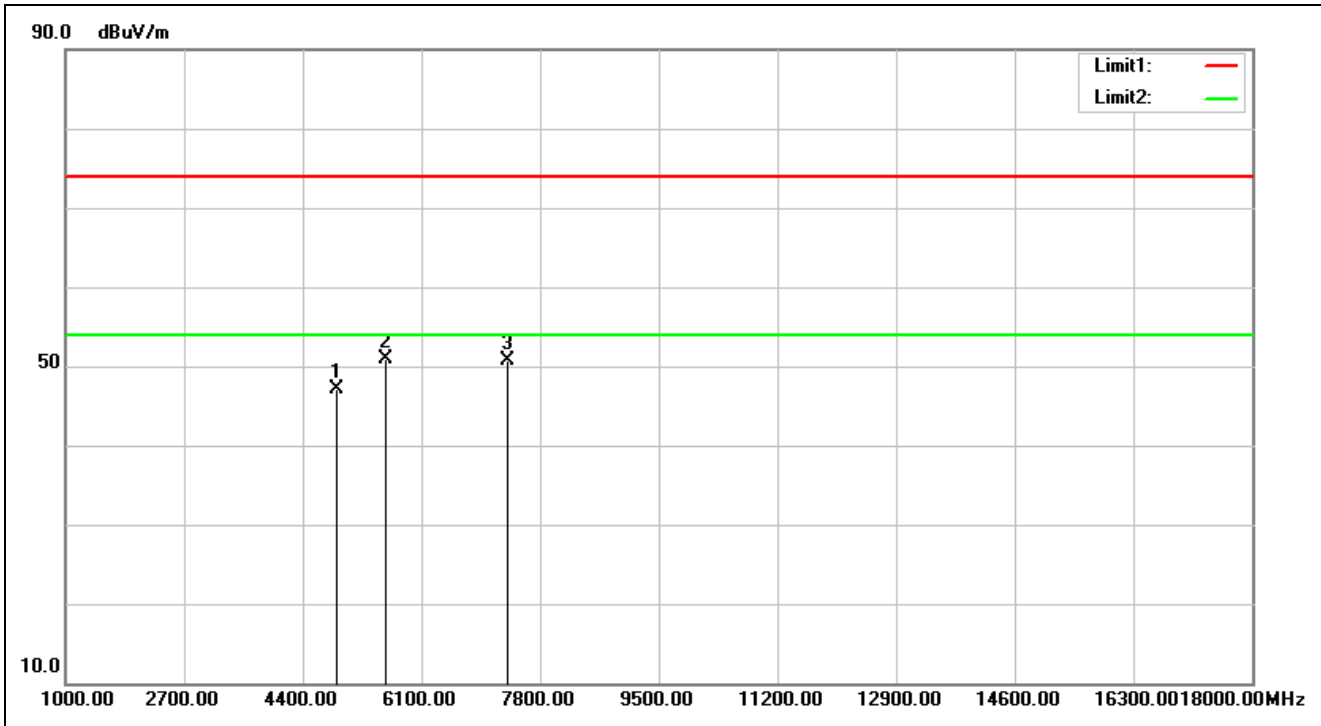
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:27:50 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2402 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4804.000 | -2.35 | 51.07 | 48.72 | 74.00 | -25.28 | peak | | | |
| 2 | 7206.000 | 5.78 | 45.25 | 51.03 | 74.00 | -22.97 | peak | | | |
| 3 | 7698.000 | 6.62 | 45.25 | 51.87 | 74.00 | -22.13 | peak | 100 | 66 | |



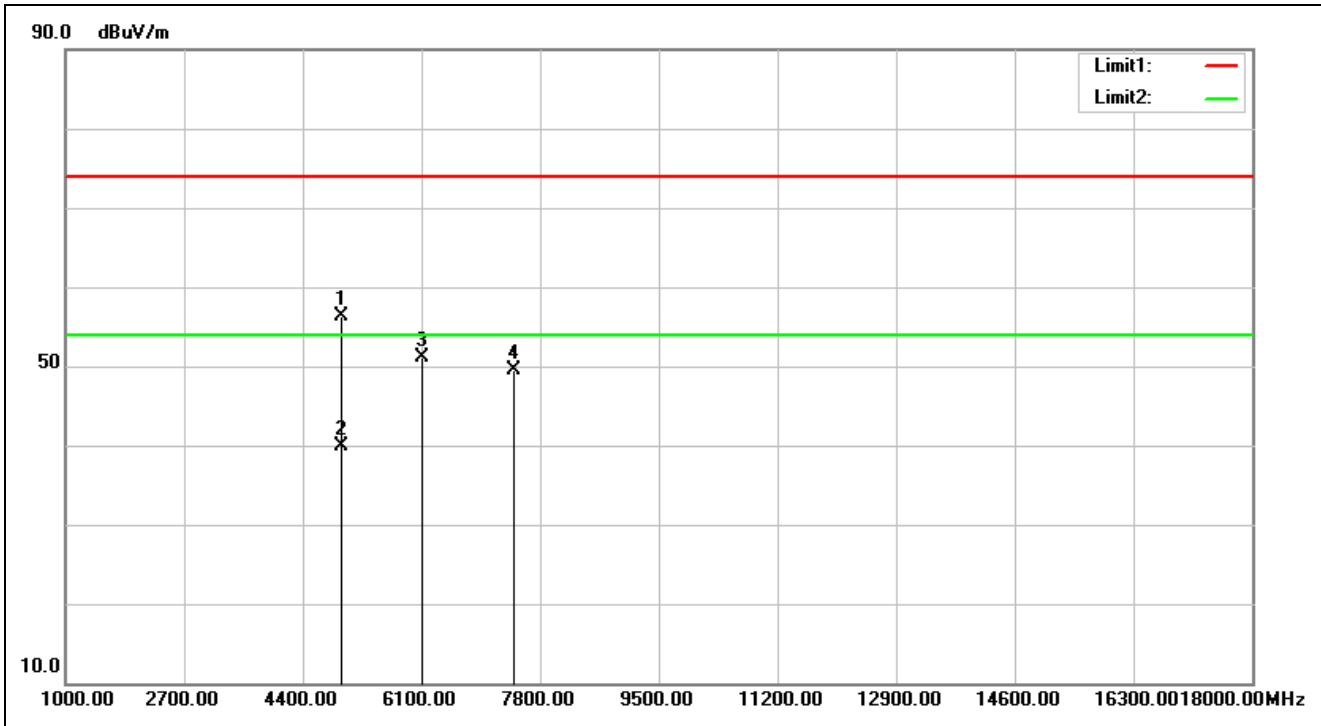
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:33:51 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2441 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4882.000 | -2.16 | 56.50 | 54.34 | 74.00 | -19.66 | peak | 100 | 280 | |
| 2 | 4882.000 | -2.16 | 45.38 | 43.22 | 54.00 | -10.78 | AVG | 100 | 280 | |
| 3 | 6661.000 | 5.75 | 45.87 | 51.62 | 74.00 | -22.38 | peak | 100 | 280 | |
| 4 | 7323.000 | 6.13 | 44.17 | 50.30 | 74.00 | -23.70 | peak | | | |



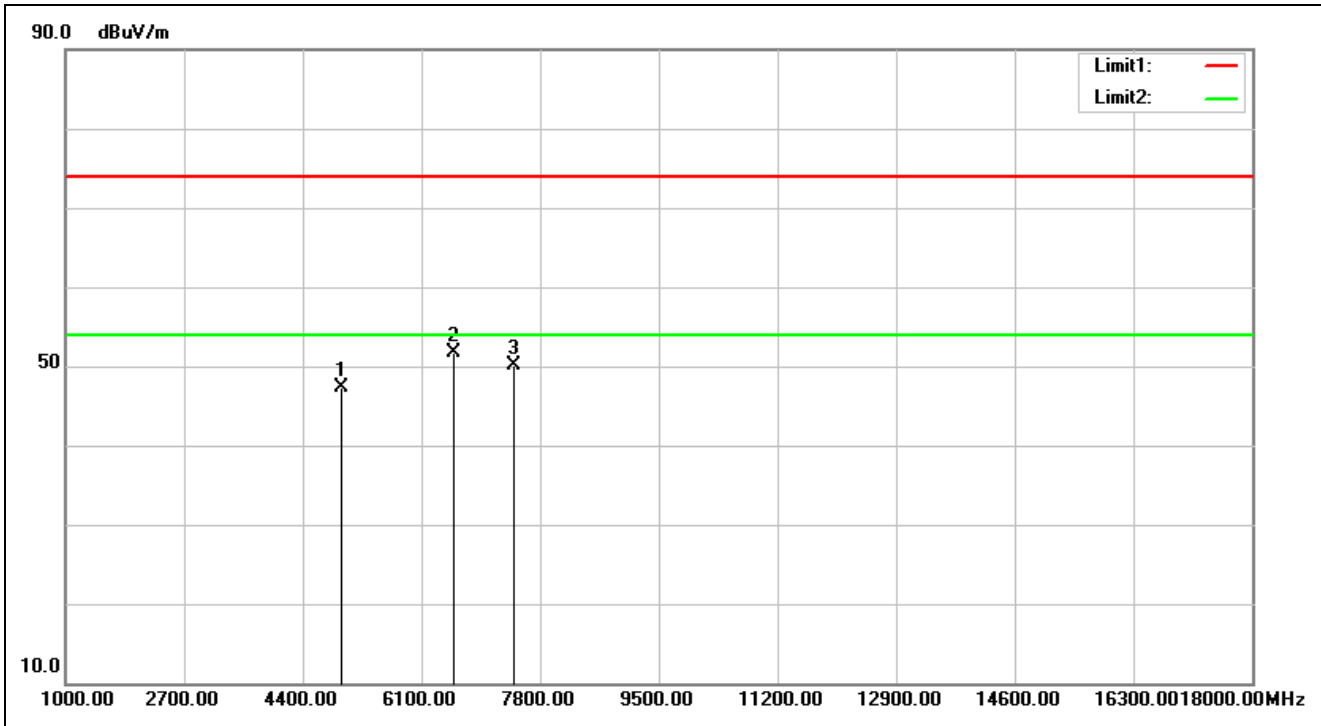
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:34:54 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2441 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4882.000 | -2.16 | 49.30 | 47.14 | 74.00 | -26.86 | peak | | | |
| 2 | 5590.000 | 1.40 | 49.47 | 50.87 | 74.00 | -23.13 | peak | 100 | 260 | |
| 3 | 7323.000 | 6.13 | 44.57 | 50.70 | 74.00 | -23.30 | peak | | | |



| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:40:40 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2480 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4960.000 | -1.97 | 58.32 | 56.35 | 74.00 | -17.65 | peak | 100 | 111 | |
| 2 | 4960.000 | -1.97 | 41.96 | 39.99 | 54.00 | -14.01 | AVG | 100 | 111 | |
| 3 | 6117.000 | 4.53 | 46.51 | 51.04 | 74.00 | -22.96 | peak | 100 | 56 | |
| 4 | 7440.000 | 6.47 | 43.07 | 49.54 | 74.00 | -24.46 | peak | | | |



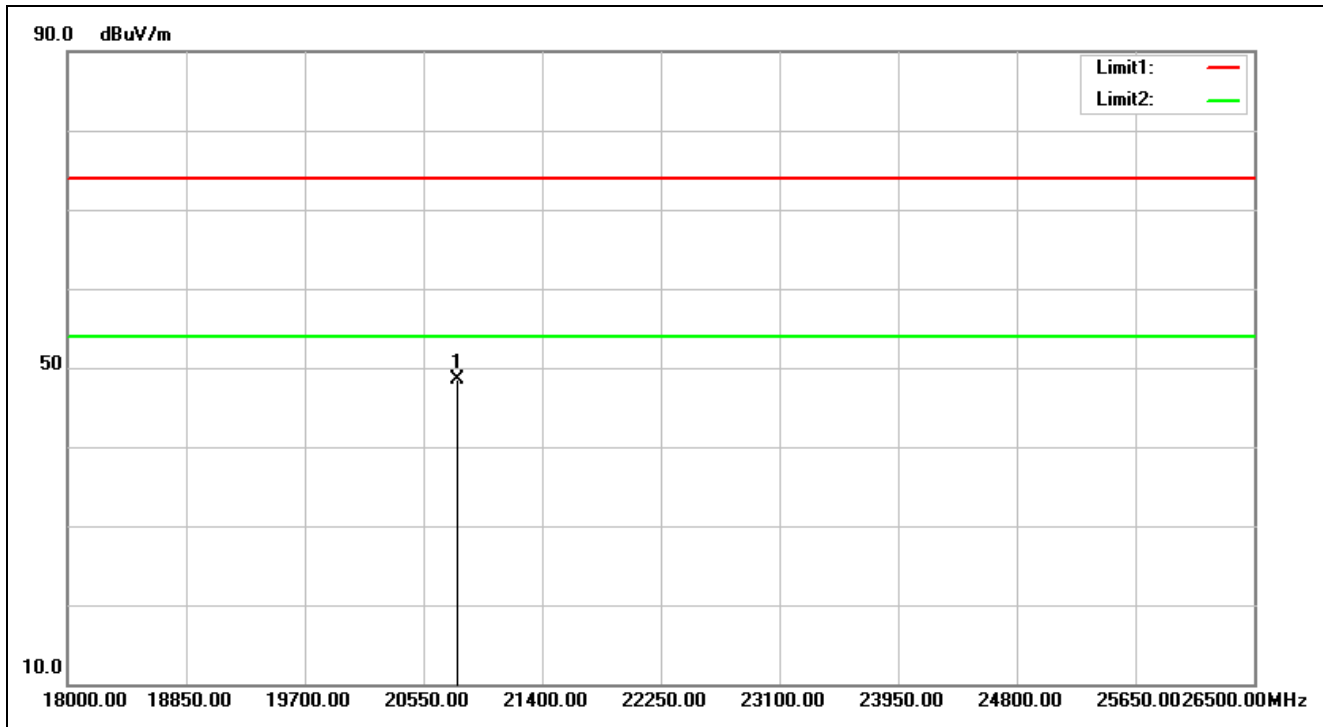
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 20:41:43 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2480 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4960.000 | -1.97 | 49.31 | 47.34 | 74.00 | -26.66 | peak | | | |
| 2 | 6559.000 | 5.94 | 45.69 | 51.63 | 74.00 | -22.37 | peak | 100 | 149 | |
| 3 | 7440.000 | 6.47 | 43.62 | 50.09 | 74.00 | -23.91 | peak | | | |

Spurious Emissions, TX Mode, 18-26G

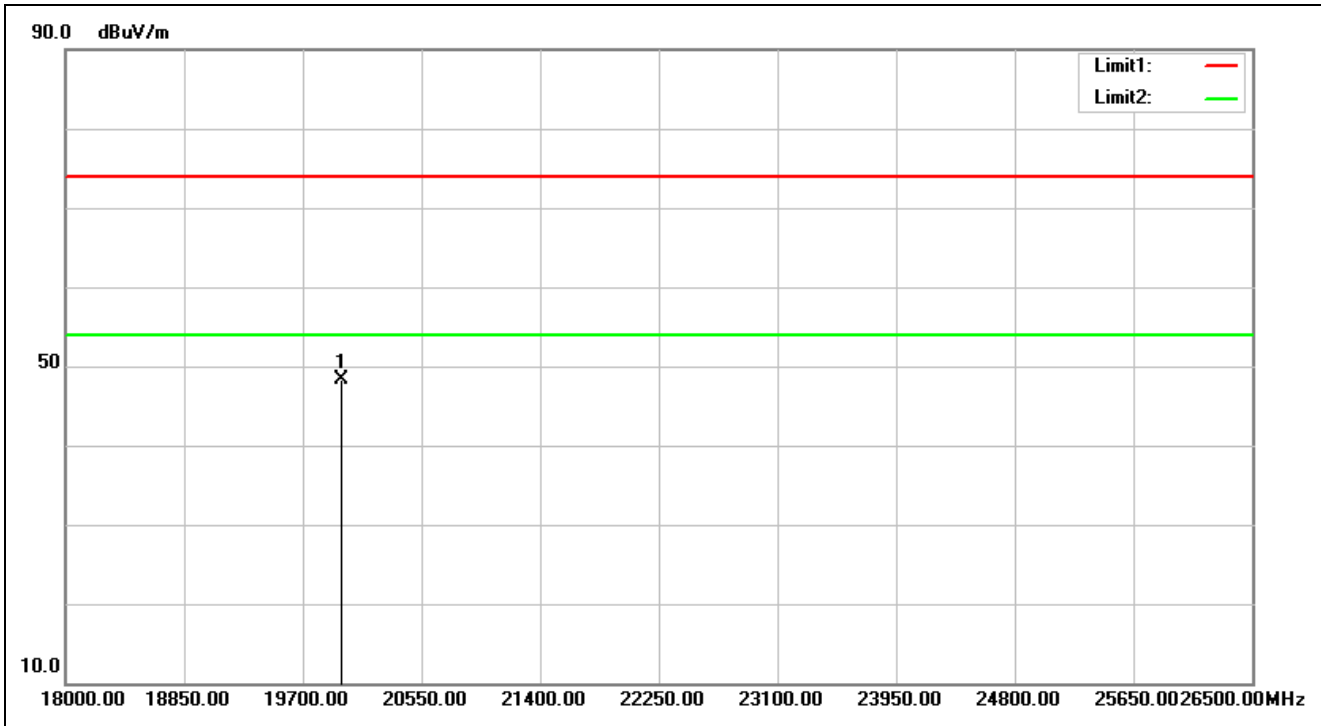


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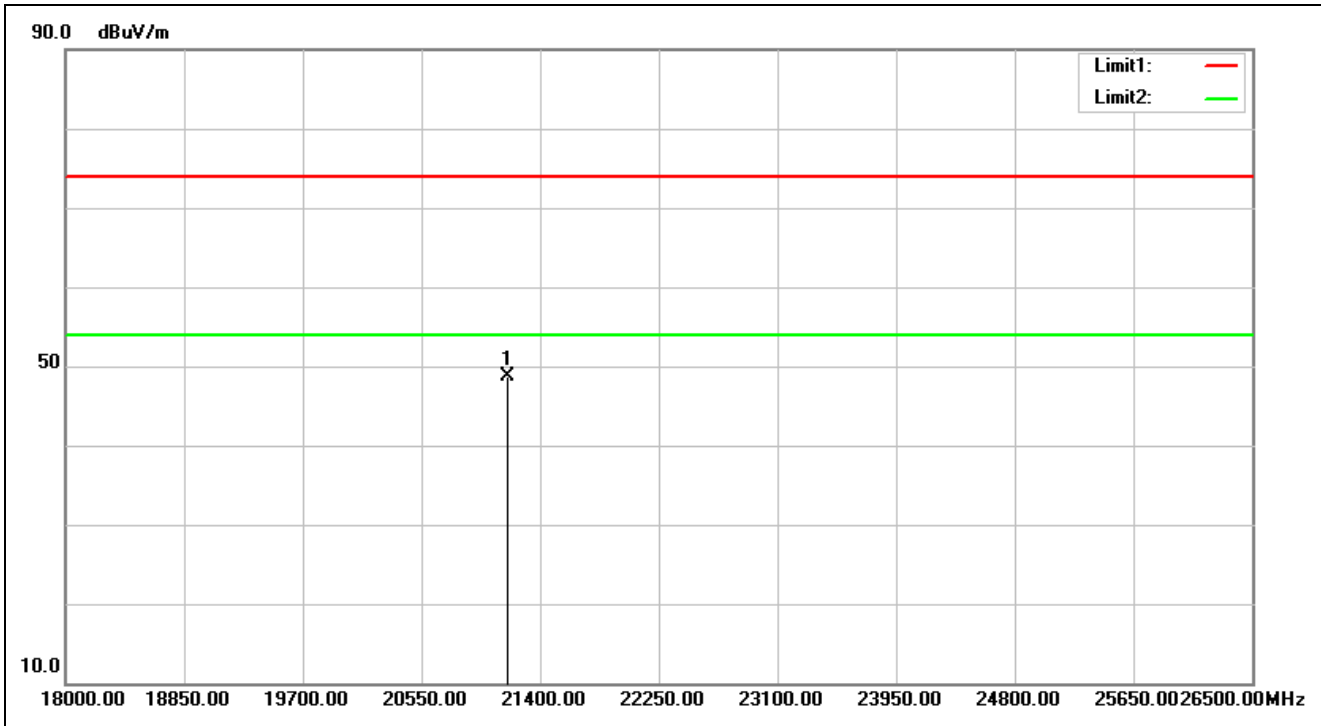
| | | | |
|-----------------------|--------------------|---------------------------|--------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:28:39 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2402 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 20788.000 | 29.32 | 19.12 | 48.44 | 74.00 | -25.56 | peak | 100 | 58 | |



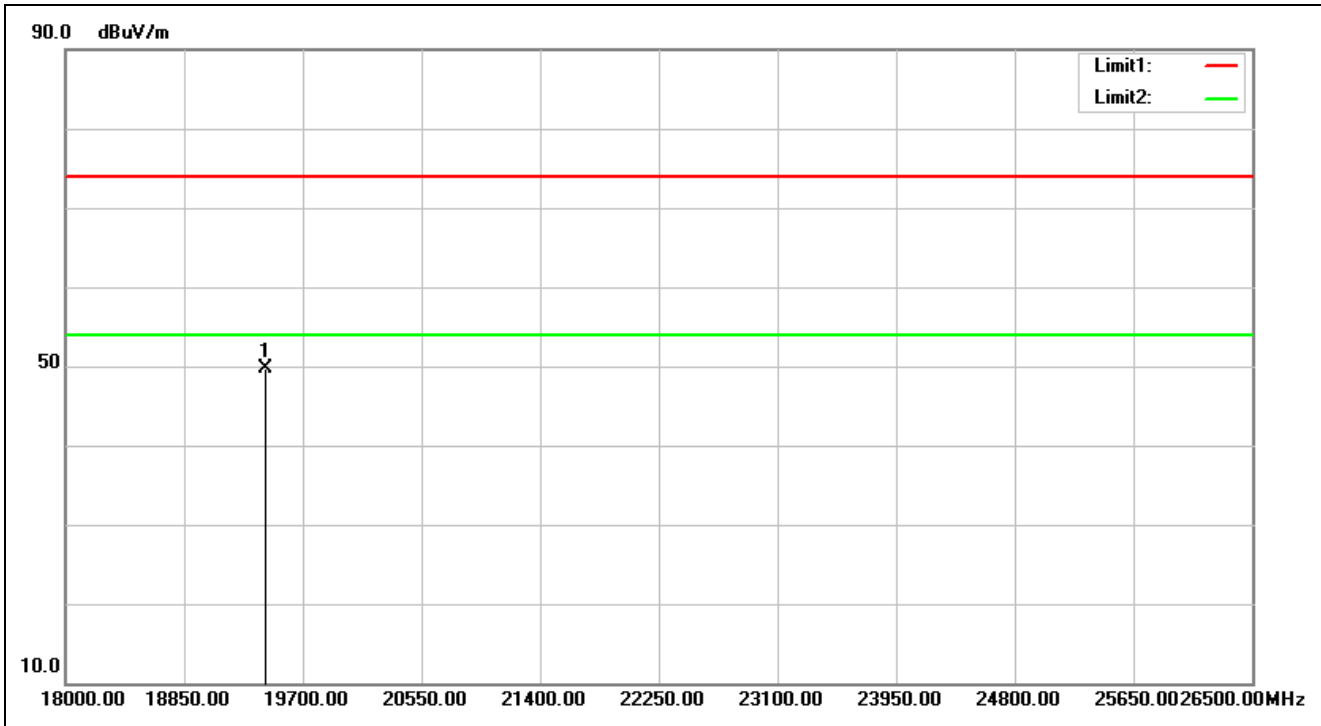
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:29:18 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2402 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 19972.000 | 28.93 | 19.37 | 48.30 | 74.00 | -25.70 | peak | | | |



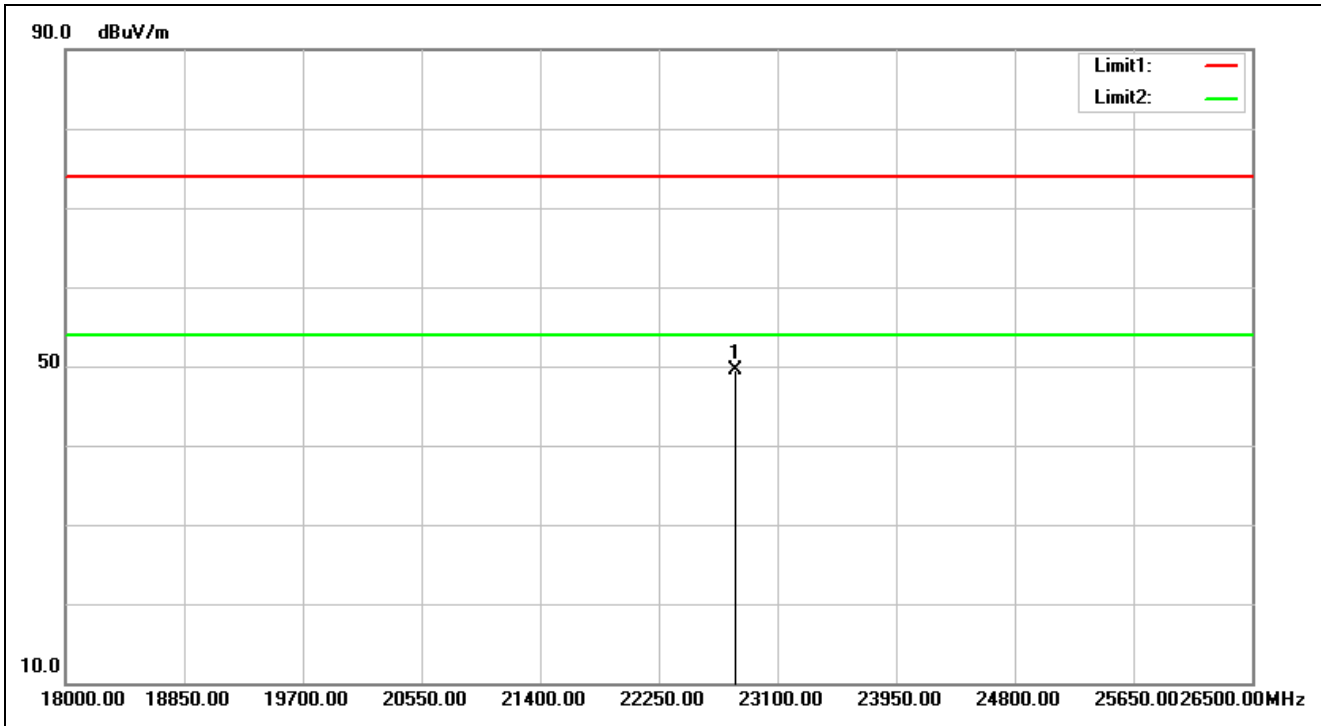
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:29:50 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2441 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 21162.000 | 29.22 | 19.42 | 48.64 | 74.00 | -25.36 | peak | | | |



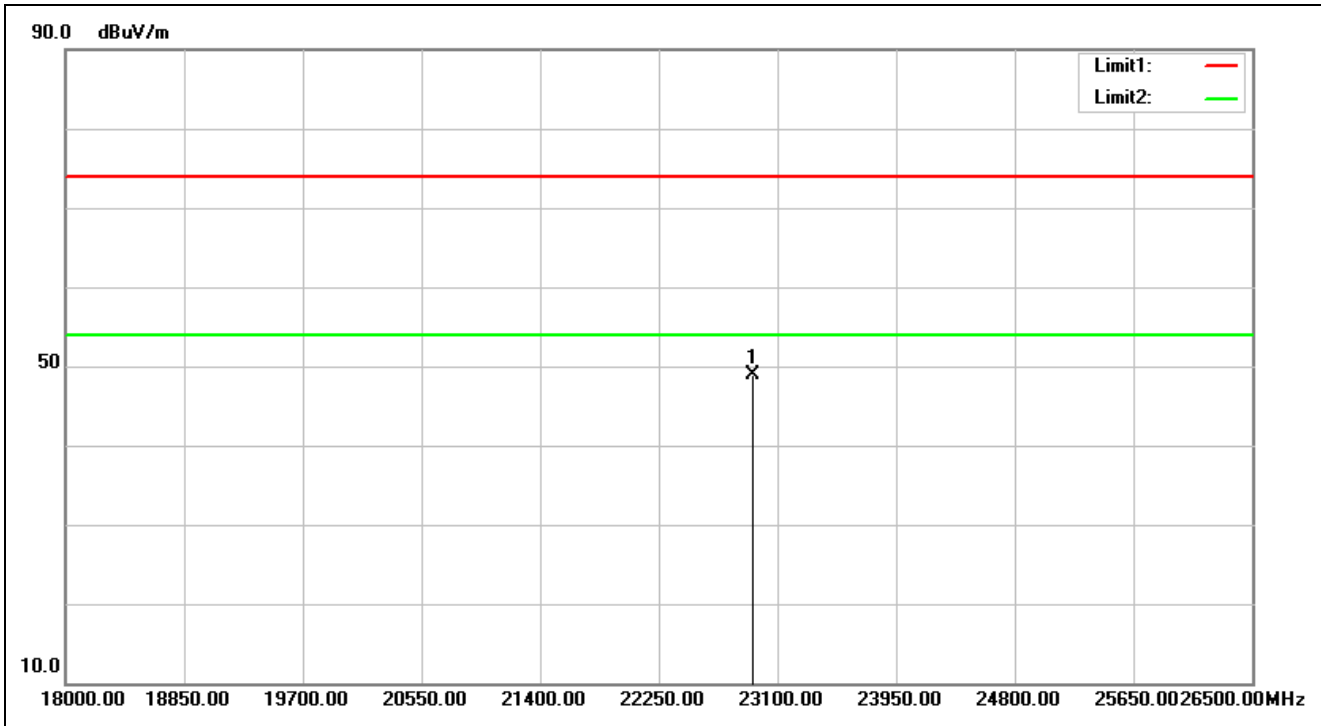
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:30:12 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2441 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 19428.000 | 28.95 | 20.80 | 49.75 | 74.00 | -24.25 | peak | | | |



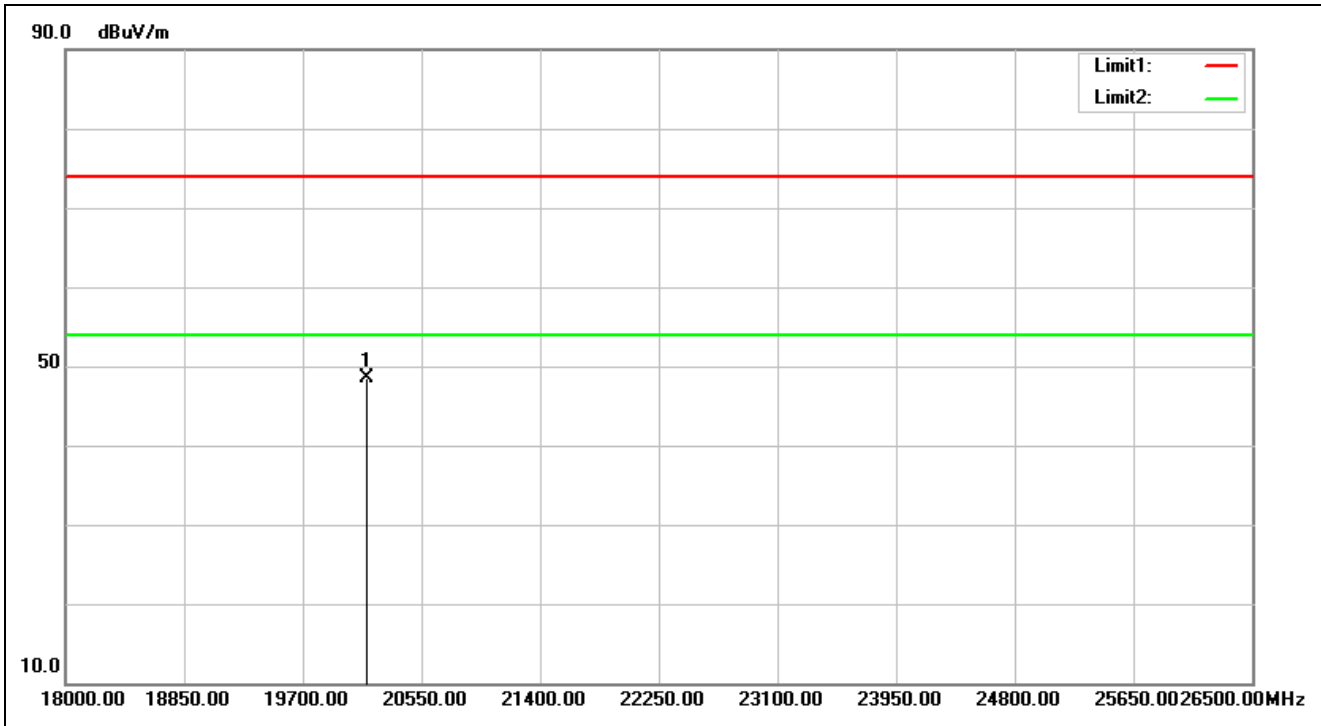
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:30:51 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2480 | | |
| Remark: | INT:59 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 22802.500 | 29.65 | 19.83 | 49.48 | 74.00 | -24.52 | peak | | | |



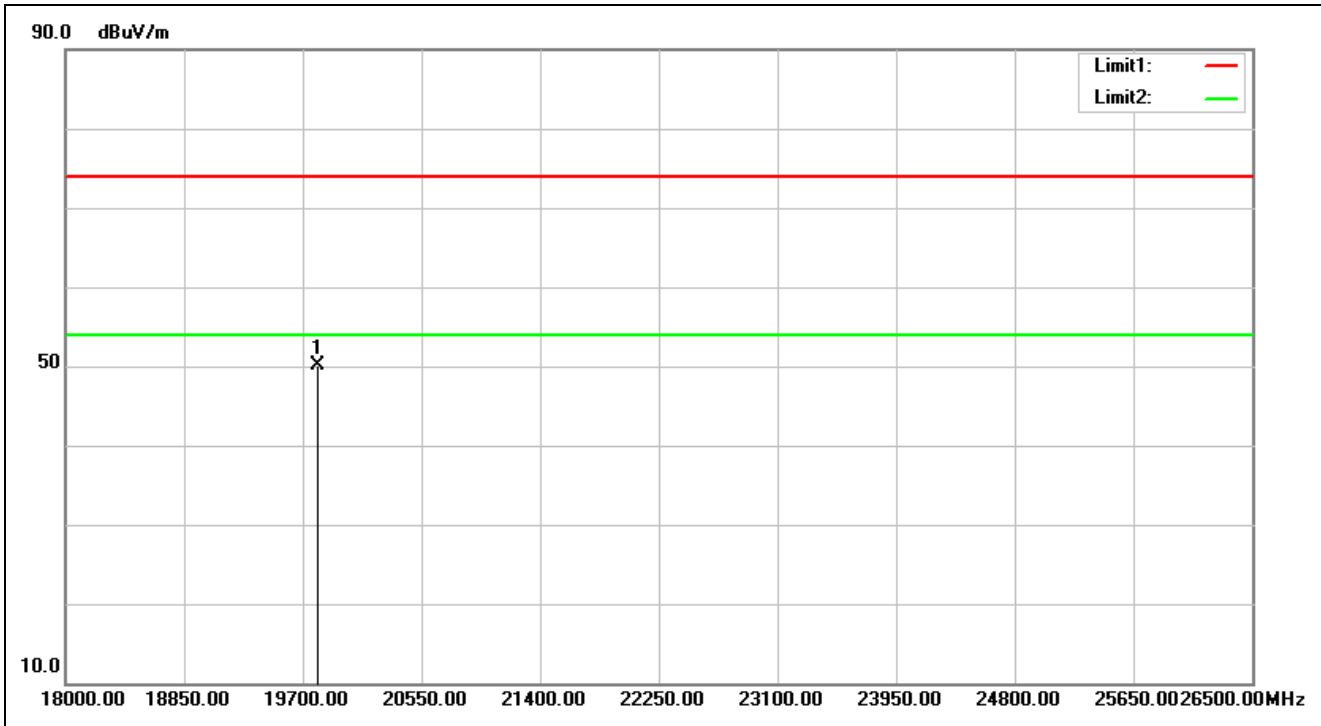
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:31:10 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2480 | | |
| Remark: | INT:59 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 22921.500 | 29.82 | 18.99 | 48.81 | 74.00 | -25.19 | peak | | | |



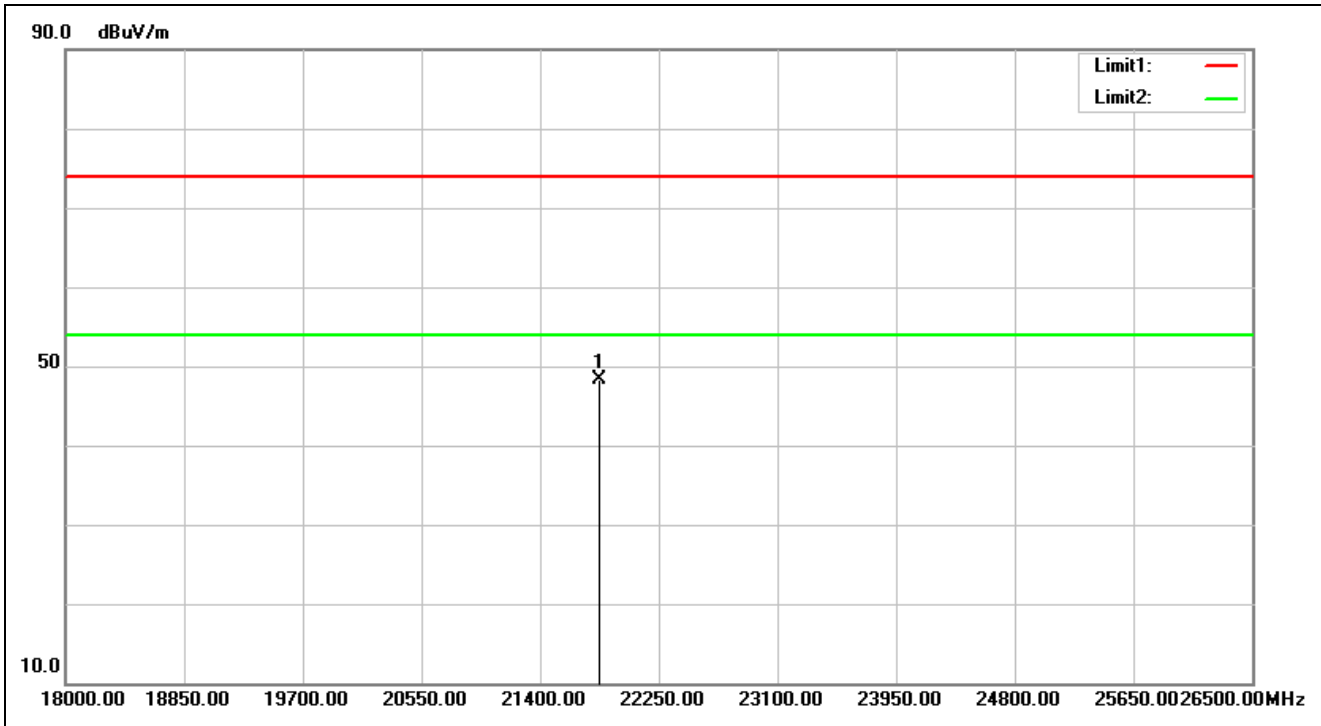
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:31:41 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2402 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 20159.000 | 29.03 | 19.44 | 48.47 | 74.00 | -25.53 | peak | | | |



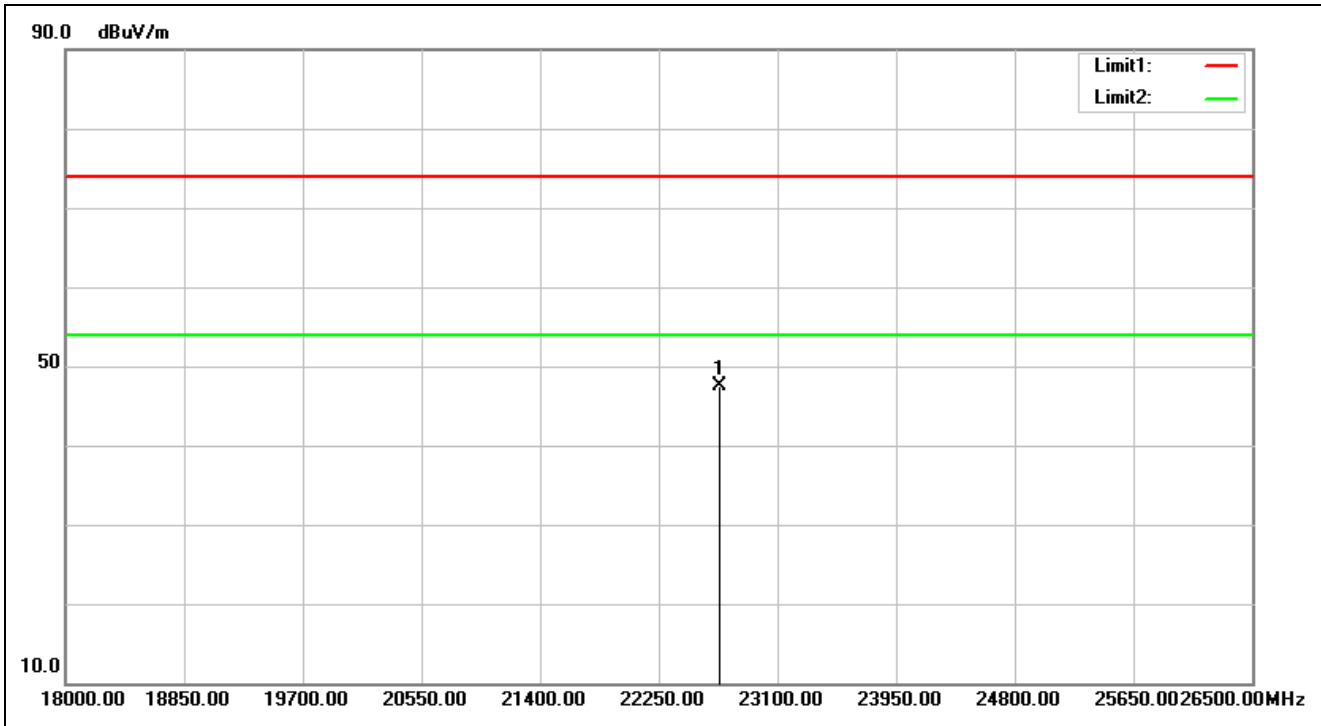
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|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:32:46 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2402 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 19810.500 | 28.93 | 21.08 | 50.01 | 74.00 | -23.99 | peak | | | |



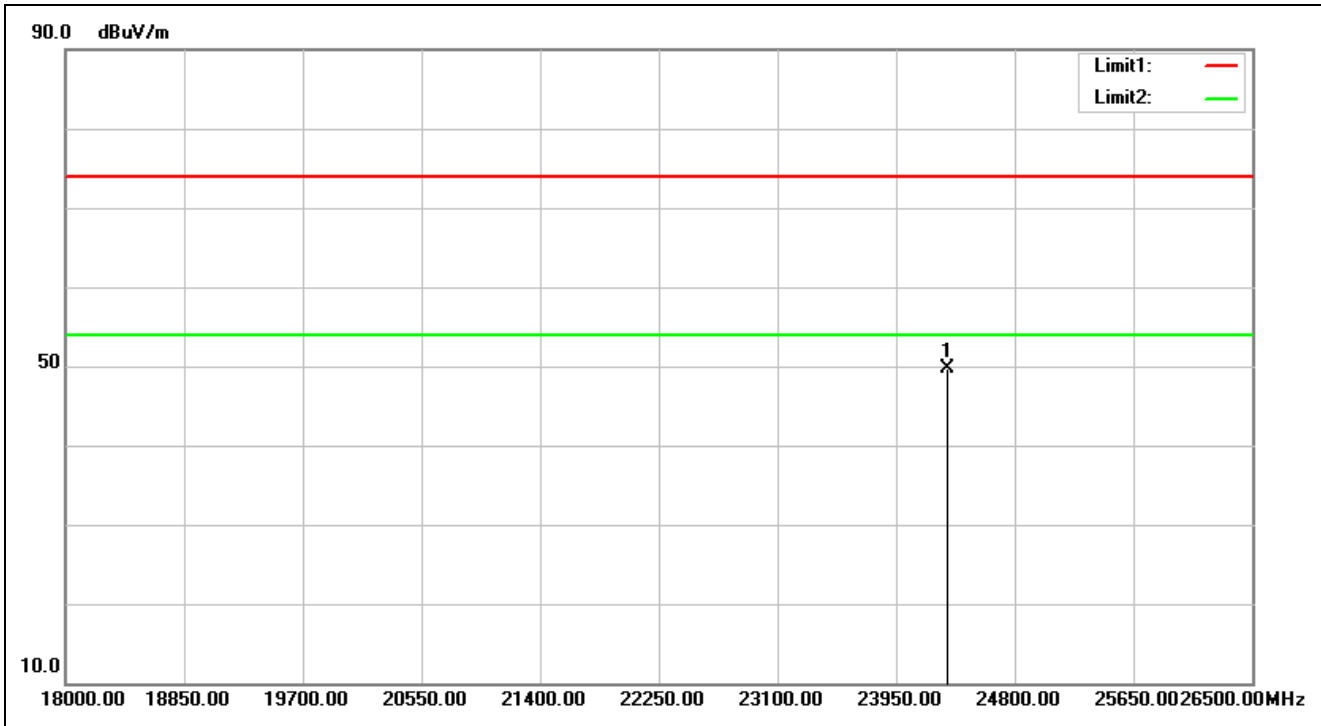
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:33:34 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2441 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 21825.000 | 28.61 | 19.66 | 48.27 | 74.00 | -25.73 | peak | | | |



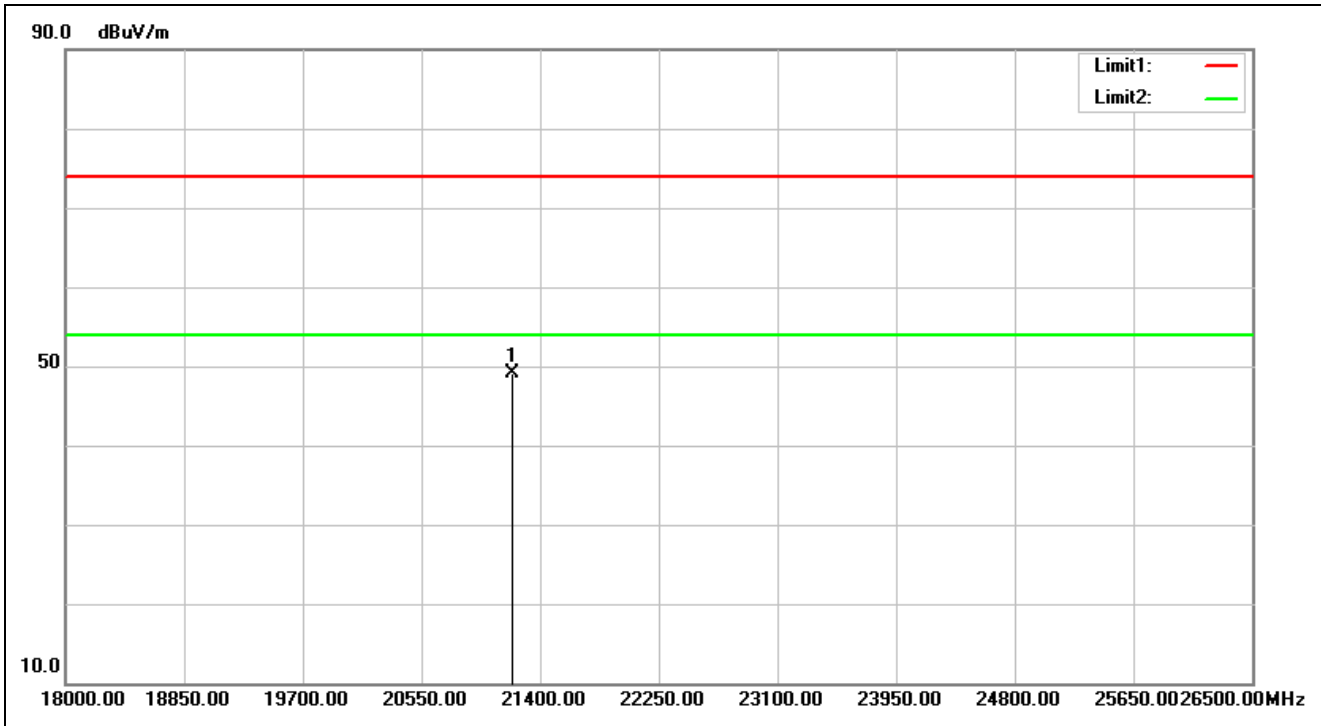
| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:33:49 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2441 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 22683.500 | 29.49 | 18.04 | 47.53 | 74.00 | -26.47 | peak | | | |



| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:34:18 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2480 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 24315.500 | 29.59 | 20.12 | 49.71 | 74.00 | -24.29 | peak | | | |



| | | | |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:34:50 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 3DH5-2480 | | |
| Remark: | INT:120 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 21196.000 | 29.18 | 19.91 | 49.09 | 74.00 | -24.91 | peak | | | |

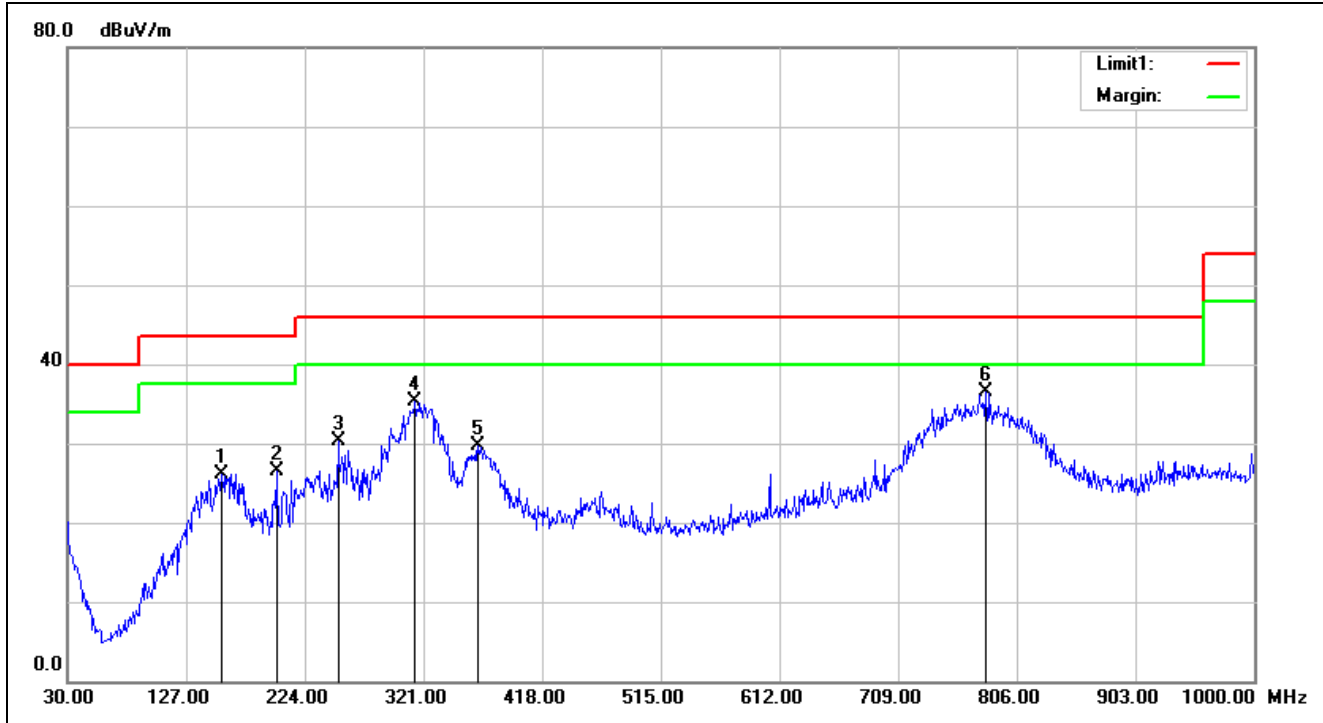
Spurious Emissions, TX Mode, 30M-1G



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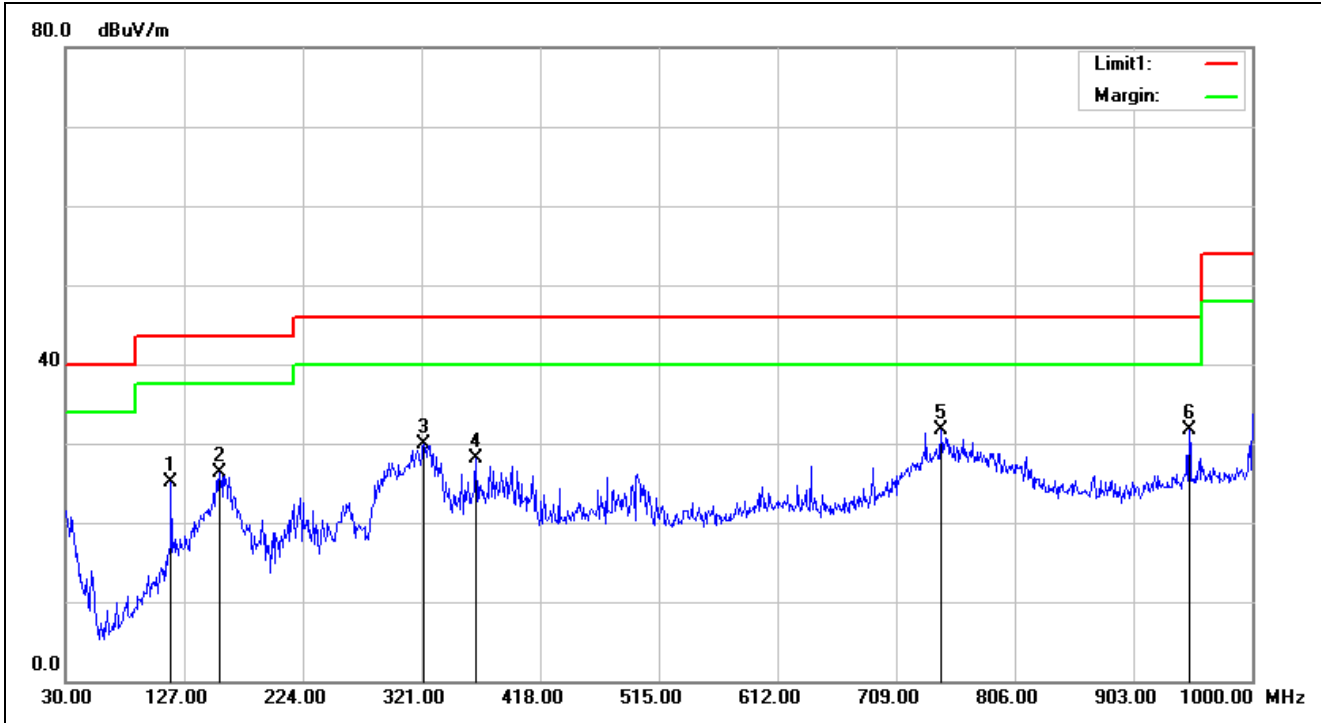
Tel:+886-2172-7000 fax:+886-2528-0018



| | | | |
|----------------|--------------------------|--------------------|--------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Class B 3M Radiation | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:53:45 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2441 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 156.1000 | -13.42 | 39.60 | 26.18 | 43.50 | -17.32 | peak | 100 | 261 | |
| 2 | 200.7200 | -14.67 | 41.19 | 26.52 | 43.50 | -16.98 | peak | 100 | 256 | |
| 3 | 251.1600 | -11.55 | 41.79 | 30.24 | 46.00 | -15.76 | peak | 100 | 251 | |
| 4 | 314.2100 | -10.07 | 45.29 | 35.22 | 46.00 | -10.78 | peak | 100 | 104 | |
| 5 | 365.6200 | -9.06 | 38.69 | 29.63 | 46.00 | -16.37 | peak | 100 | 299 | |
| 6 | 780.7800 | -3.47 | 40.00 | 36.53 | 46.00 | -9.47 | peak | 100 | 99 | |

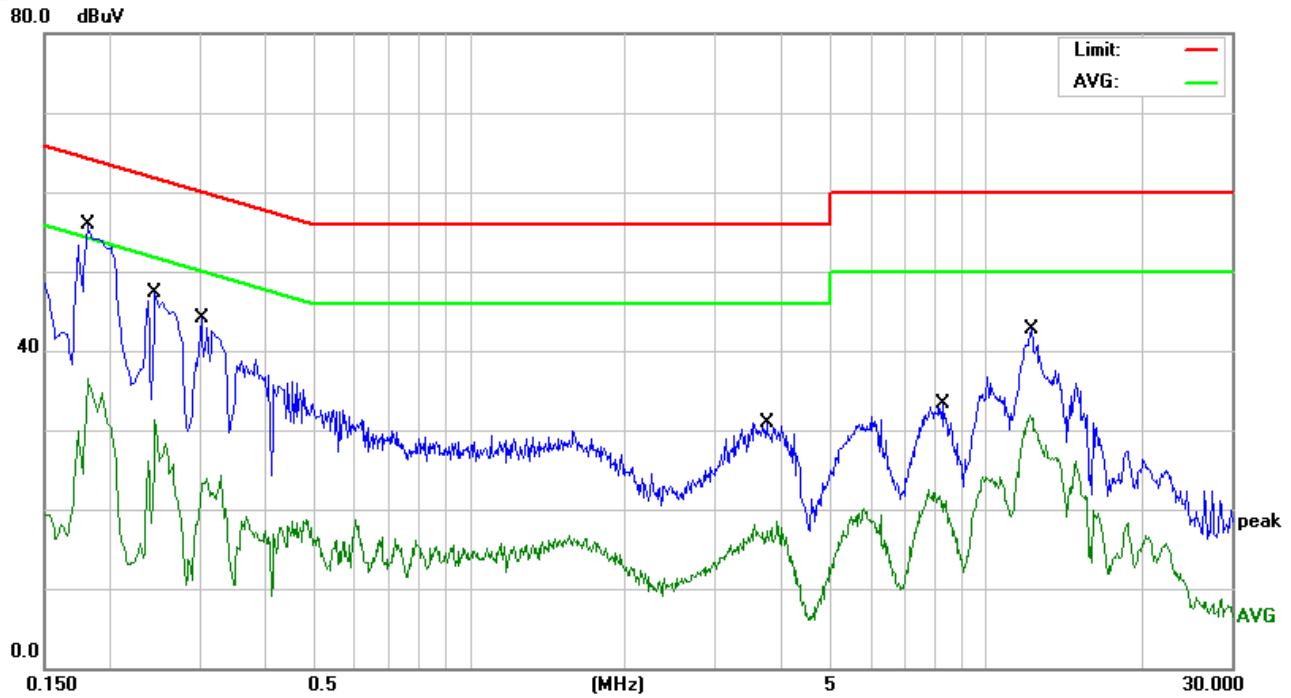
Spurious Emissions, Mains, 150kHz - 30MHz



| | | | |
|-----------------------|---------------------------------|---------------------------|---------------------------|
| Service No.: | 114038549-FCC | Test Distance: | 3m |
| Test Standard: | FCC Class B 3M Radiation | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2015/8/10 22:54:49 |
| Applicant: | Delta | Test Rating: | DC 5V |
| Product: | Bluetooth Speaker | Temp.(°C)/Hum.(%): | 23.4(°C)/49% |
| Model No.: | VFRU-19-05BT | Test Engineer: | George Yang |
| Test Mode: | 1DH5-2441 | | |
| Remark: | INT:57 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 116.3300 | -13.26 | 38.31 | 25.05 | 43.50 | -18.45 | peak | 100 | 266 | |
| 2 | 156.1000 | -13.42 | 39.69 | 26.27 | 43.50 | -17.23 | peak | 100 | 112 | |
| 3 | 322.9400 | -9.88 | 39.74 | 29.86 | 46.00 | -16.14 | peak | 100 | 202 | |
| 4 | 365.6200 | -9.06 | 37.08 | 28.02 | 46.00 | -17.98 | peak | 100 | 202 | |
| 5 | 745.8600 | -3.79 | 35.40 | 31.61 | 46.00 | -14.39 | peak | 100 | 125 | |
| 6 | 948.5900 | -0.29 | 31.93 | 31.64 | 46.00 | -14.36 | peak | 100 | 3 | |

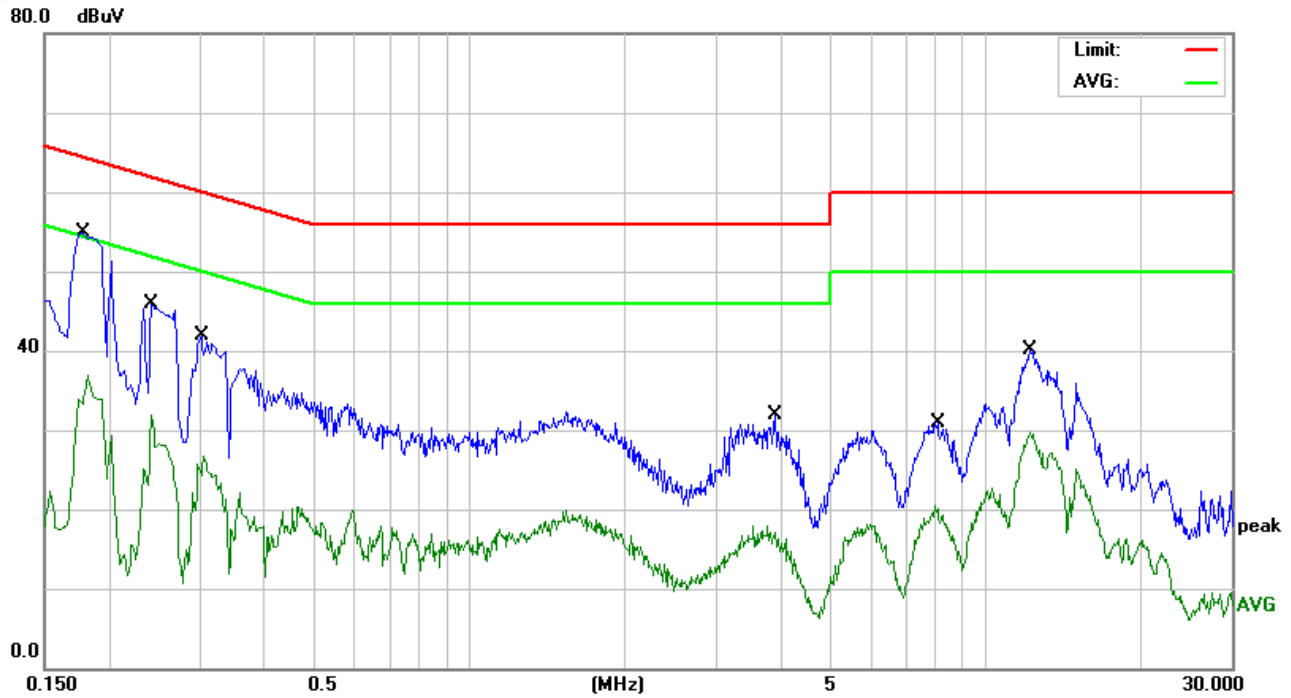
Mains Spurious Emissions



Service No.: 114038549
Test Standard: FCC Class B Conduction(QP) **Probe:** L1
Test item: Conduction Emission **Test Time:** 2015/7/27 21:26:00
Applicant: Delta **Test Rating:** AC 120V/60Hz
Product: Bluetooth Speaker **Temp.(°C)/Hum.(%):** 23.5(°C)/47%
Model No.: VFRU-19-05BT **Test Engineer:** Hugo Chang
Test Mode:
Remark:

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Remark |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|--------|
| 1 | 0.1819 | 9.63 | 43.16 | 52.79 | 64.39 | -11.60 | QP | |
| 2 | 0.1819 | 9.63 | 24.08 | 33.71 | 54.39 | -20.68 | AVG | |
| 3 | 0.2460 | 9.63 | 34.16 | 43.79 | 61.89 | -18.10 | QP | |
| 4 | 0.2460 | 9.63 | 16.33 | 25.96 | 51.89 | -25.93 | AVG | |
| 5 | 0.3020 | 9.63 | 28.78 | 38.41 | 60.19 | -21.78 | QP | |
| 6 | 0.3020 | 9.63 | 12.60 | 22.23 | 50.19 | -27.96 | AVG | |
| 7 | 3.7780 | 9.66 | 15.22 | 24.88 | 56.00 | -31.12 | QP | |
| 8 | 3.7780 | 9.66 | 6.27 | 15.93 | 46.00 | -30.07 | AVG | |
| 9 | 8.2460 | 9.73 | 17.10 | 26.83 | 60.00 | -33.17 | QP | |
| 10 | 8.2460 | 9.73 | 9.18 | 18.91 | 50.00 | -31.09 | AVG | |
| 11 | 12.2340 | 9.78 | 26.98 | 36.76 | 60.00 | -23.24 | QP | |
| 12 | 12.2340 | 9.78 | 19.62 | 29.40 | 50.00 | -20.60 | AVG | |

Spurious Emissions, Mains, 150kHz - 30MHz



Service No.: 114038549
 Test Standard: FCC Class B Conduction(QP) Probe: N
 Test item: Conduction Emission Test Time: 2015/7/27 21:29:04
 Applicant: Delta Test Rating: AC 120V/60Hz
 Product: Bluetooth Speaker Temp.(°C)/Hum.(%): 23.5(°C)/47%
 Model No.: VFRU-19-05BT Test Engineer: Hugo Chang

Test Mode:

Remark:

| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Remark |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|--------|
| 1 | 0.1780 | 9.65 | 42.73 | 52.38 | 64.57 | -12.19 | QP | |
| 2 | 0.1780 | 9.65 | 23.64 | 33.29 | 54.57 | -21.28 | AVG | |
| 3 | 0.2420 | 9.65 | 33.11 | 42.76 | 62.02 | -19.26 | QP | |
| 4 | 0.2420 | 9.65 | 17.55 | 27.20 | 52.02 | -24.82 | AVG | |
| 5 | 0.3020 | 9.64 | 28.61 | 38.25 | 60.19 | -21.94 | QP | |
| 6 | 0.3020 | 9.64 | 15.39 | 25.03 | 50.19 | -25.16 | AVG | |
| 7 | 3.9180 | 9.68 | 12.58 | 22.26 | 56.00 | -33.74 | QP | |
| 8 | 3.9180 | 9.68 | 4.09 | 13.77 | 46.00 | -32.23 | AVG | |
| 9 | 8.0940 | 9.76 | 14.48 | 24.24 | 60.00 | -35.76 | QP | |
| 10 | 8.0940 | 9.76 | 6.93 | 16.69 | 50.00 | -33.31 | AVG | |
| 11 | 12.2380 | 9.83 | 24.24 | 34.07 | 60.00 | -25.93 | QP | |
| 12 | 12.2380 | 9.83 | 17.29 | 27.12 | 50.00 | -22.88 | AVG | |