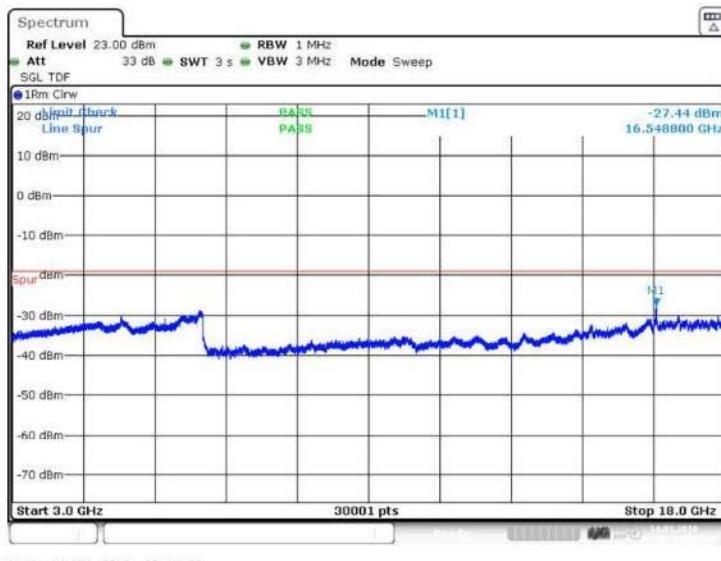




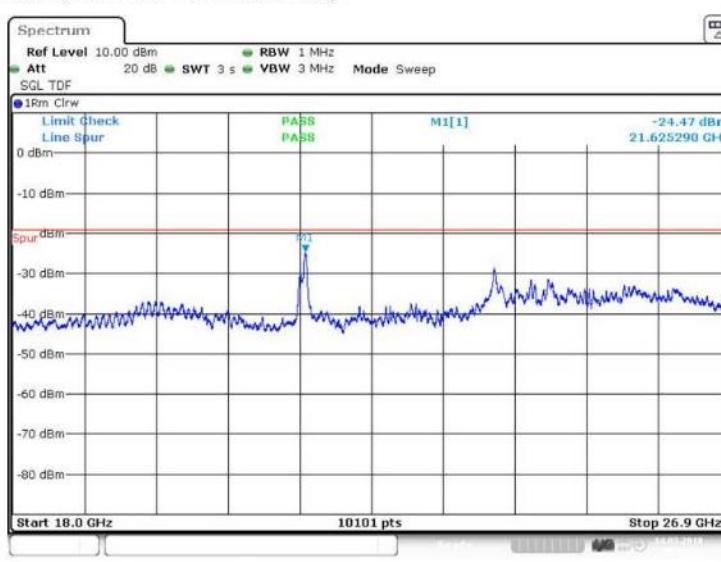
Product Service

FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 223 Spurious Emissions (3 GHz – 18GHz) – 16QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



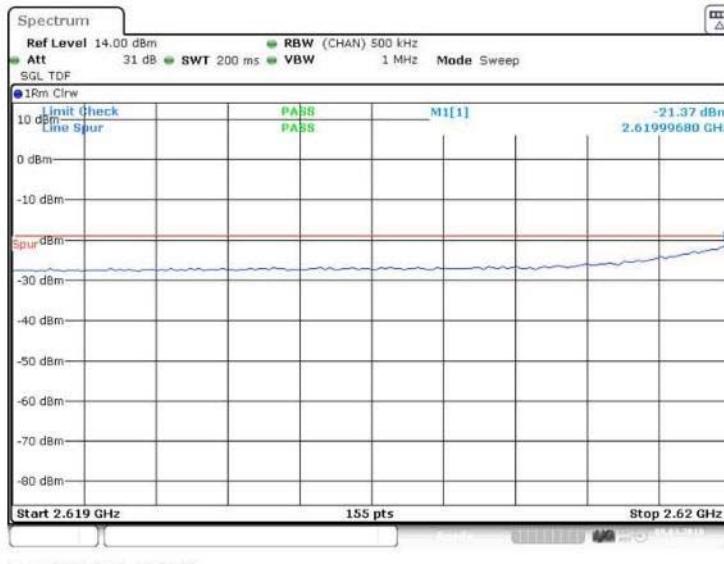
**Figure 224 Spurious Emissions (18GHz – 26.9GHz) – 16QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



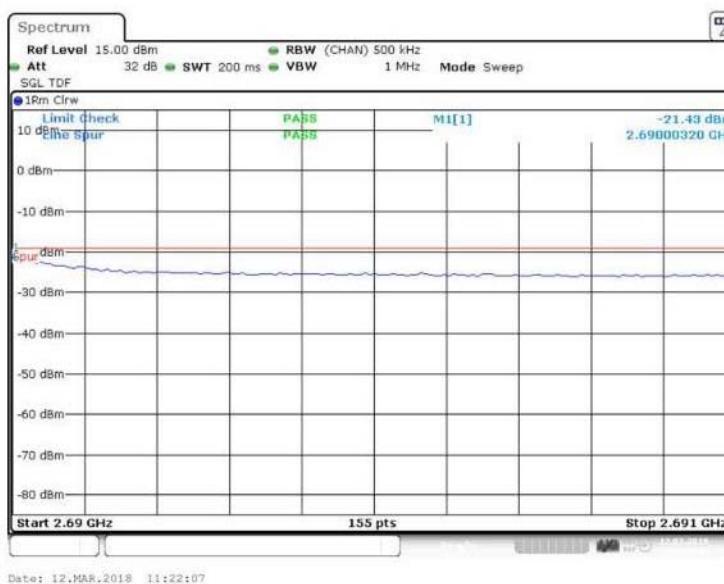
Product Service

FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 225 Spurious Emissions (Lower Band Edge) – 64QAM (2630 MHz, 2650 MHz, 2x20 MHz Channel BW)**



**Figure 226 Spurious Emissions (Upper Band Edge) – 64QAM (2660 MHz, 2680 MHz, 2x20 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

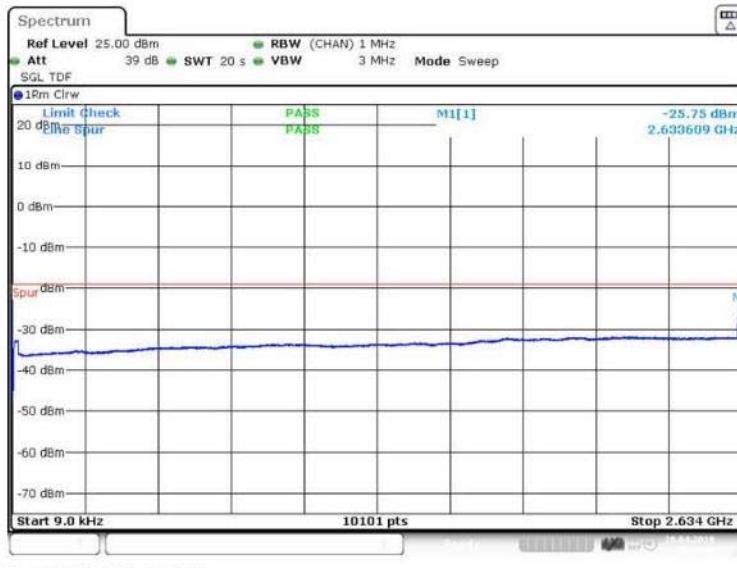
30. April 2018  
 Page 214 of 301



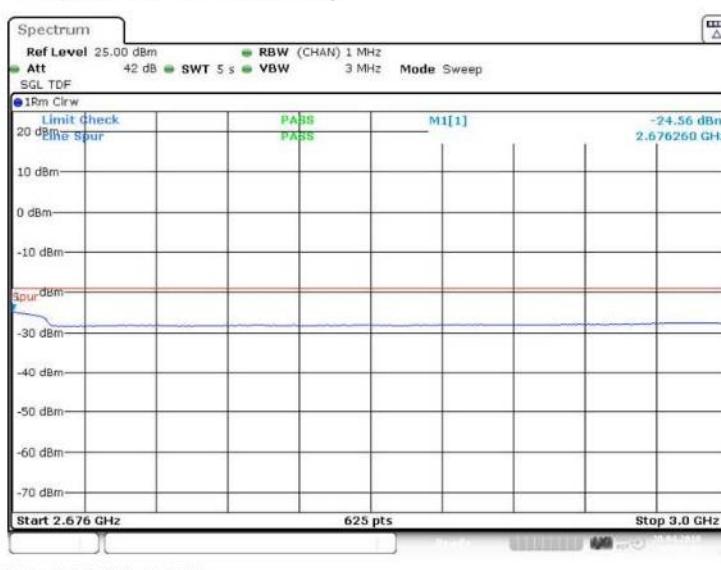
Product Service

FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 227 Spurious Emissions (9kHz – 2.634GHz) – 64QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



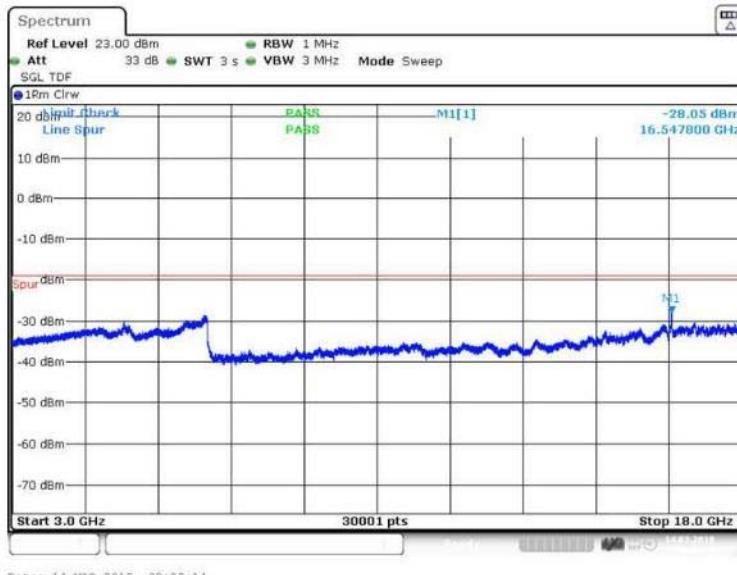
**Figure 228 Spurious Emissions (2.676 GHz – 3 GHz) – 64QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



Product Service

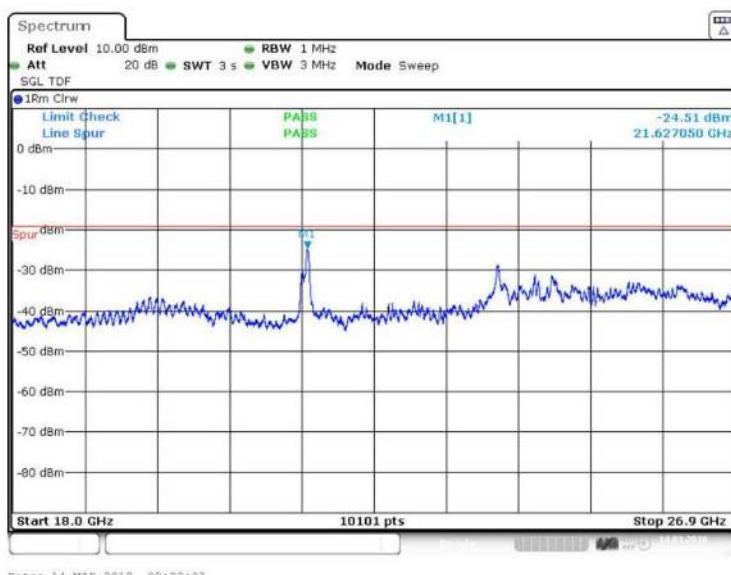
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



Date: 14.MAR.2018 09:22:14

**Figure 229 Spurious Emissions (3 GHz – 18GHz) – 64QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



Date: 14.MAR.2018 09:22:03

**Figure 230 Spurious Emissions (18GHz – 26.9GHz) – 256QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

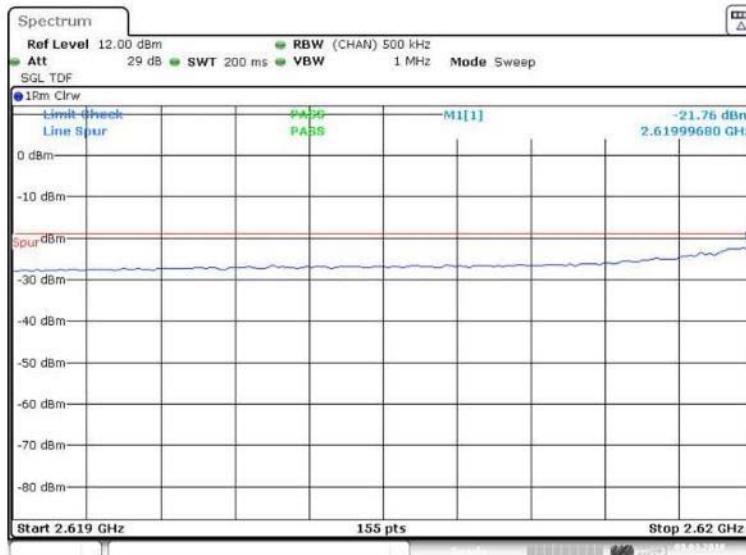
30. April 2018  
 Page 216 of 301



Product Service

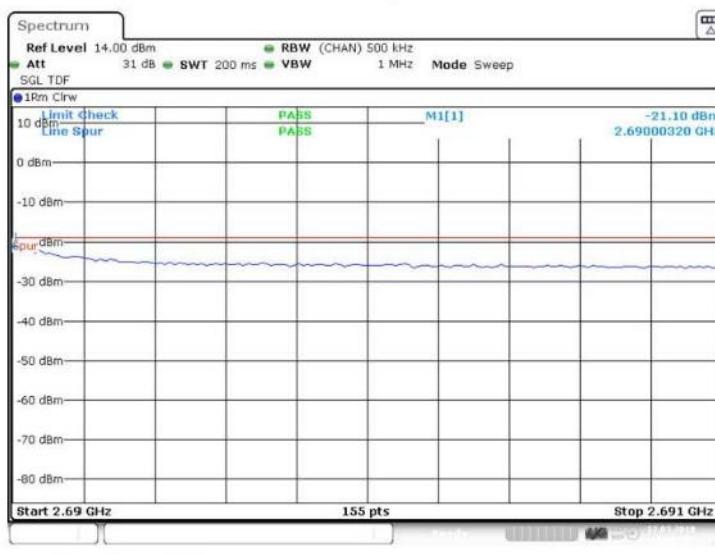
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



Date: 9.MAR.2018 11:40:51

**Figure 231 Spurious Emissions (Lower Band Edge) – 256QAM (2630 MHz, 2650 MHz, 2x20 MHz Channel BW)**



Date: 12.MAR.2018 11:27:32

**Figure 232 Spurious Emissions (Upper Band Edge) – 256QAM (2660 MHz, 2680 MHz, 2x20 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

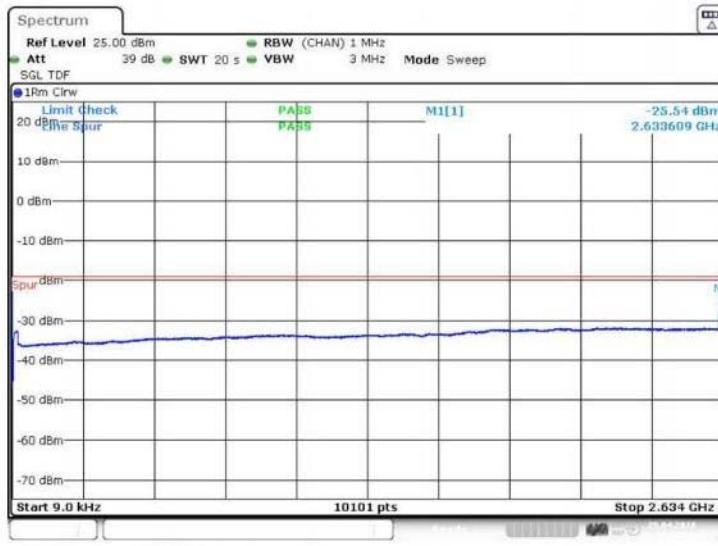
30. April 2018  
 Page 217 of 301



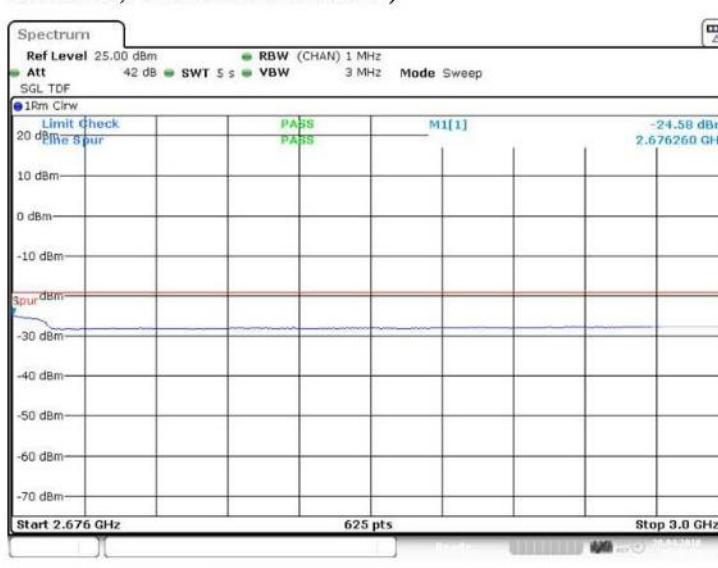
Product Service

FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 233 Spurious Emissions (9kHz – 2.634GHz) – 256QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



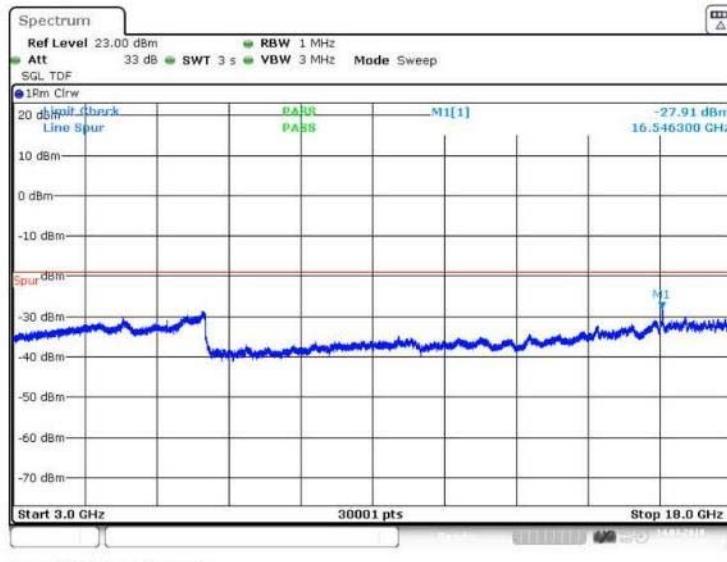
**Figure 234 Spurious Emissions (2.676 GHz – 3 GHz) – 256QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



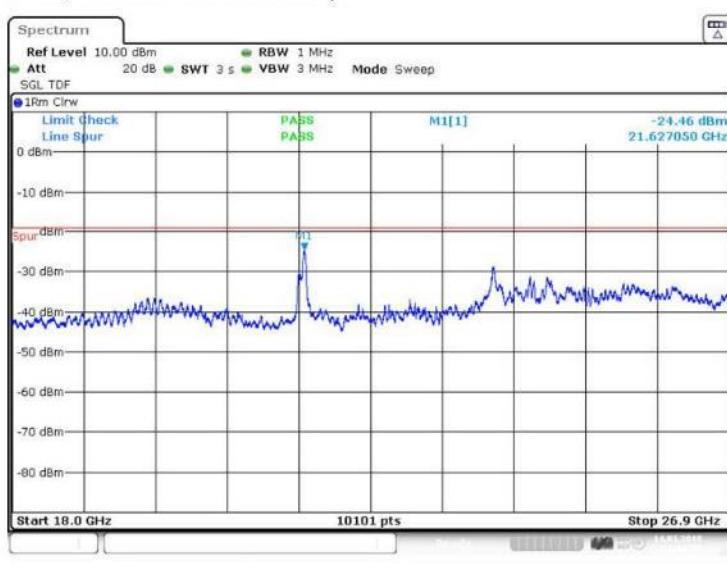
Product Service

FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 235 Spurious Emissions (3 GHz – 18GHz) – 256QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



**Figure 236 Spurious Emissions (18GHz – 26.9GHz) – 256QAM (2645 MHz, 2665 MHz, 2x20 MHz Channel BW)**



Product Service

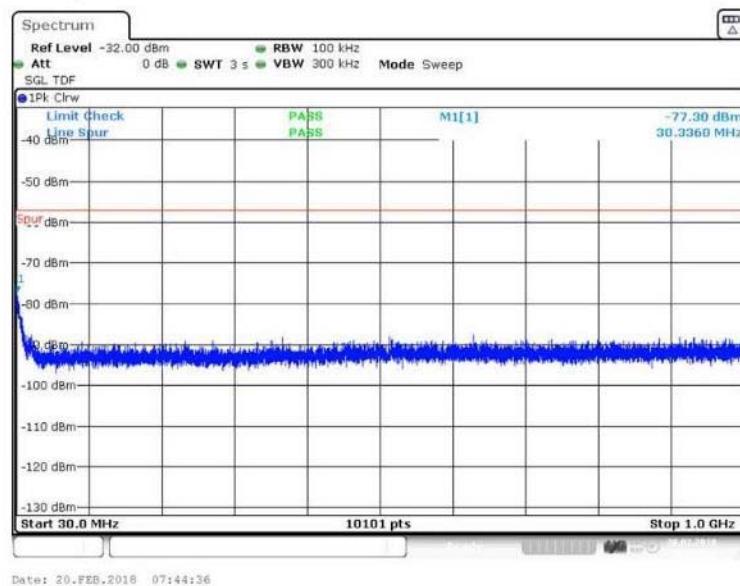
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096

#### 5.2.4. Test No. 7: Receiver Spurious Emissions (Conducted)

Screenshots of highest power and emission antenna port. In this unit it was antenna port 2. The external attenuation (connection loss of the set up) is already added in the results. Limit line is set fixed to -57dBm and -53dBm.

**Config A ANT2:**



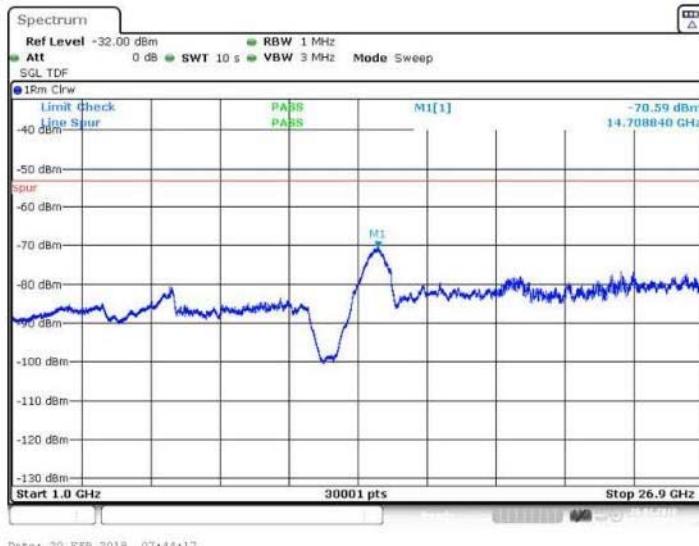
**Figure 237: Spurious Emissions (30MHz – 1GHz) – (2535.0 MHz) (5 MHz Channel BW)**



Product Service

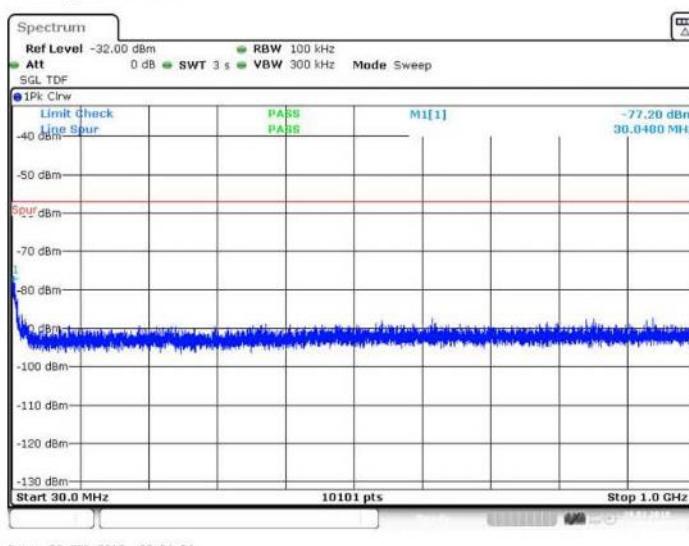
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 238: Spurious Emissions (1GHz – 26.9 GHz) – (2535.0 MHz) (5 MHz Channel BW)**

#### Config B ANT2:



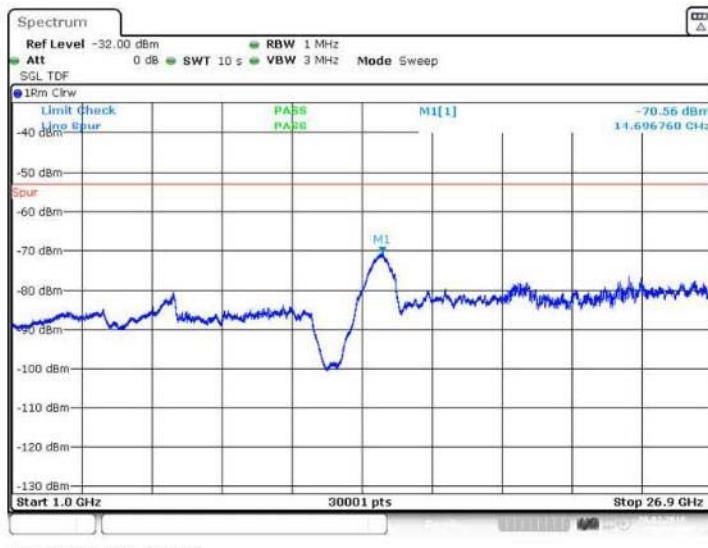
**Figure 239: Spurious Emissions (30MHz – 1GHz) – (2535.0 MHz) (10 MHz Channel BW)**



Product Service

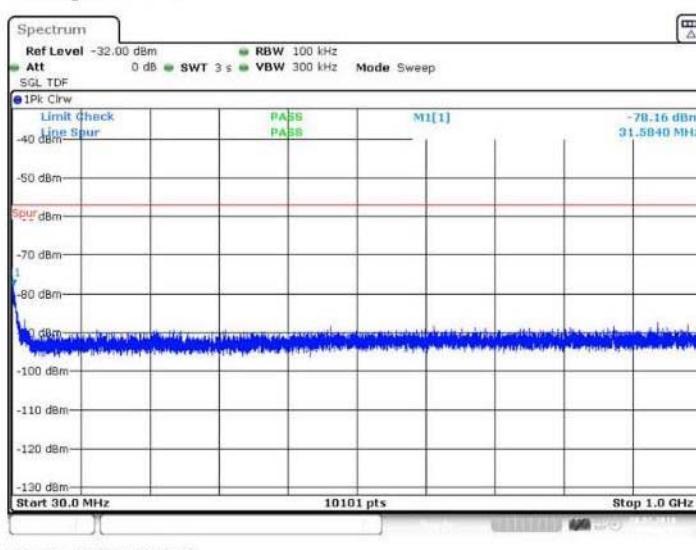
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 240: Spurious Emissions (1GHz – 26.9 GHz) – (2535.0 MHz) (10 MHz Channel BW)**

#### Config C ANT2:



**Figure 241: Spurious Emissions (30MHz – 1GHz) – (2535.0 MHz) (15 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

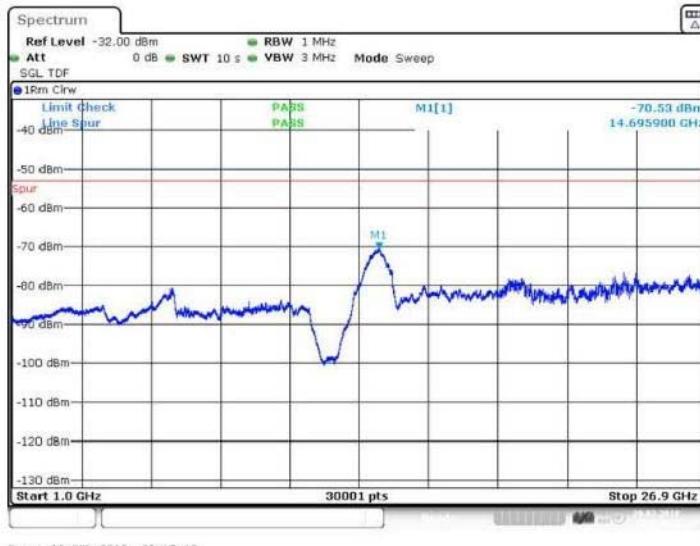
30. April 2018  
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Product Service

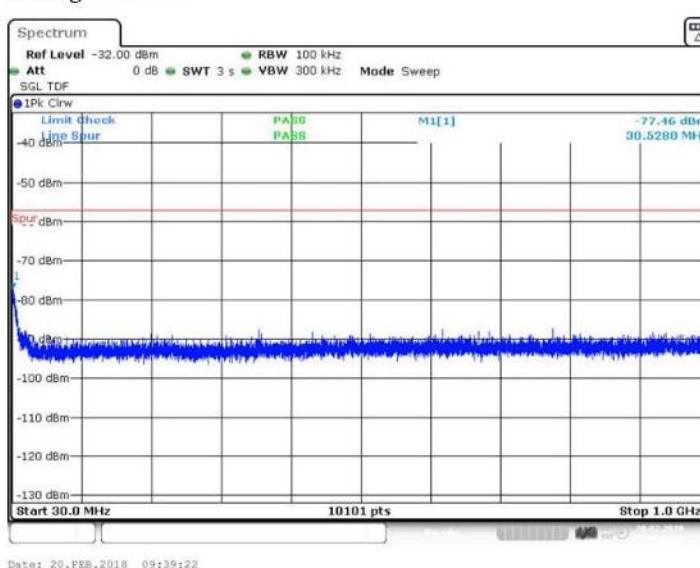
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 242: Spurious Emissions (1GHz – 26.9 GHz) – (2535.0 MHz) (15 MHz Channel BW)**

#### Config D ANT2:



**Figure 243: Spurious Emissions (30MHz – 1GHz) – (2535.0 MHz) (20 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

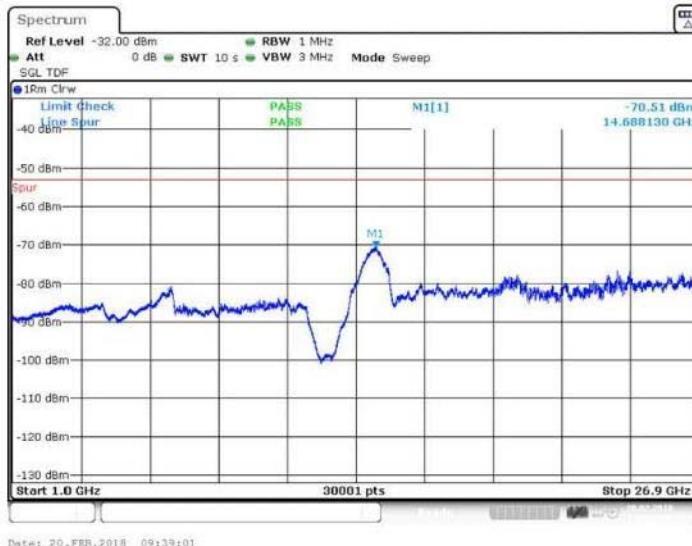
30. April 2018  
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Product Service

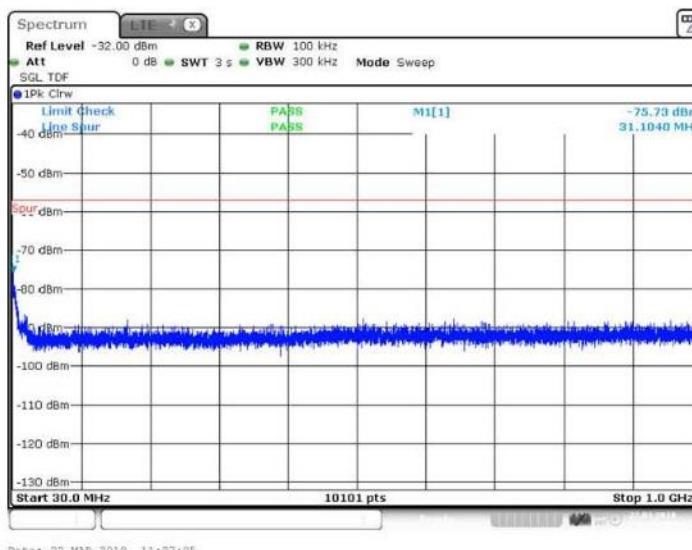
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 244: Spurious Emissions (1GHz – 26.9 GHz) – (2535.0 MHz) (20 MHz Channel BW)**

#### Config E ANT2:



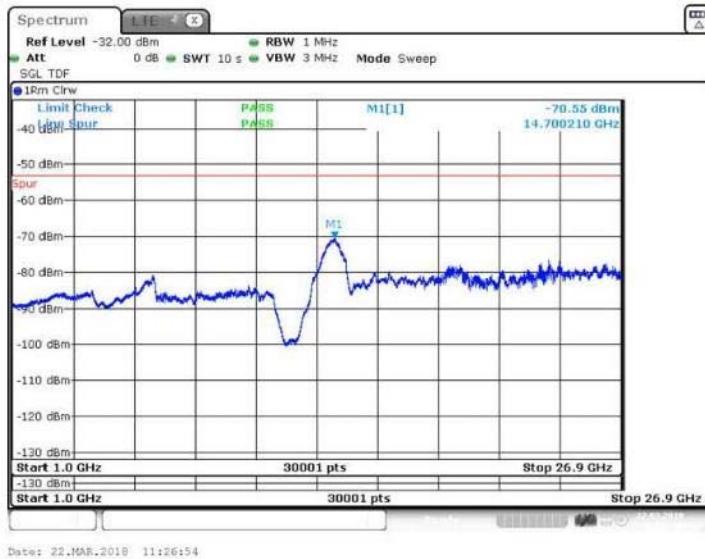
**Figure 245: Spurious Emissions (30MHz – 1GHz) – (2532.5 MHz, 2537.5 MHz) (5+5 MHz Channel BW)**



Product Service

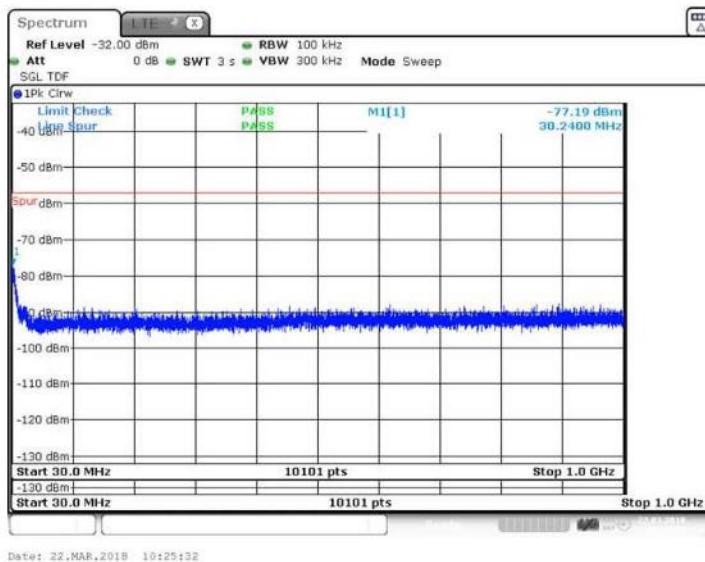
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 246: Spurious Emissions (1GHz – 26.9 GHz) – (2532.5 MHz, 2537.5 MHz) (5+5 MHz Channel BW)**

#### Config F ANT2:



**Figure 247: Spurious Emissions (30MHz – 1GHz) – (2530 MHz, 2540 MHz) (10+10 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

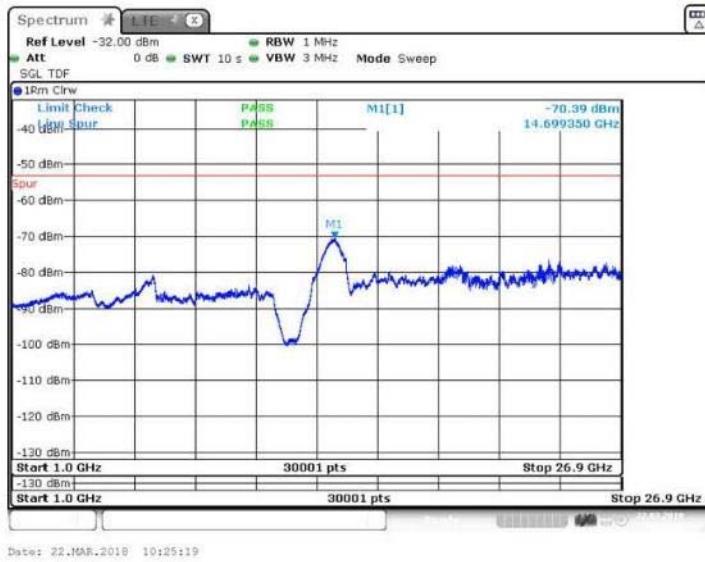
30. April 2018  
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Product Service

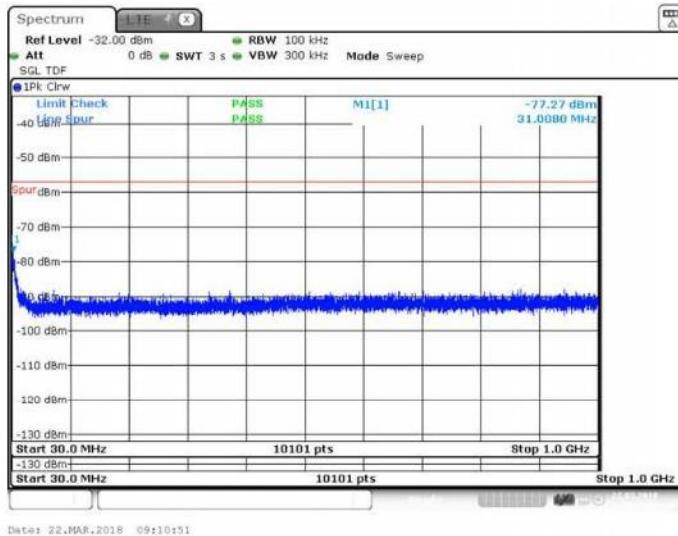
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 248: Spurious Emissions (1GHz – 26.9 GHz) – (2530 MHz, 2540 MHz)  
 (10+10 MHz Channel BW)**

#### Config G ANT2:



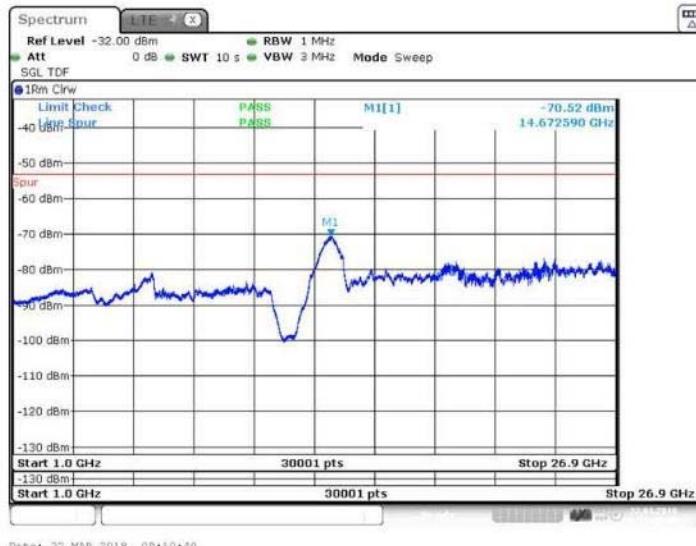
**Figure 249: Spurious Emissions (30MHz – 1GHz) – (2527.5 MHz, 2542.5 MHz)  
 (15+15 MHz Channel BW)**



Product Service

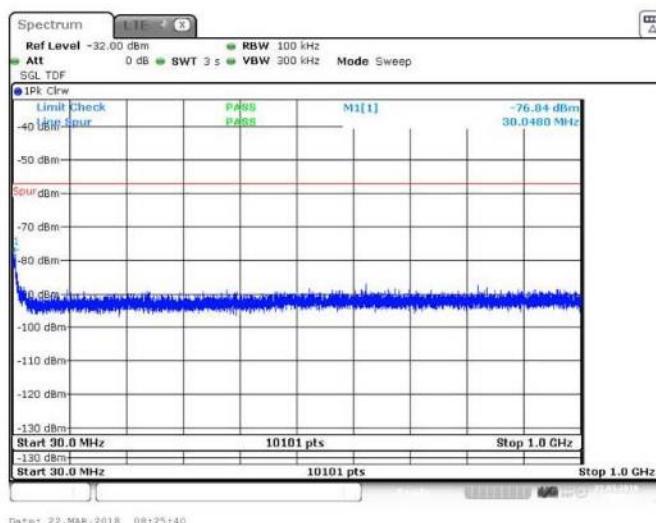
FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHBB

Test Report No:  
D564660096



**Figure 250: Spurious Emissions (1GHz – 26.9 GHz) – (2527.5 MHz, 2542.5 MHz) (15+15 MHz Channel BW)**

#### Config H ANT2:



**Figure 251: Spurious Emissions (30MHz – 1GHz) – (2525 MHz, 2545 MHz) (20+20 MHz Channel BW)**

FCC 47 CFR part 27 (2017)  
 Industry Canada RSS-199  
 (2016)

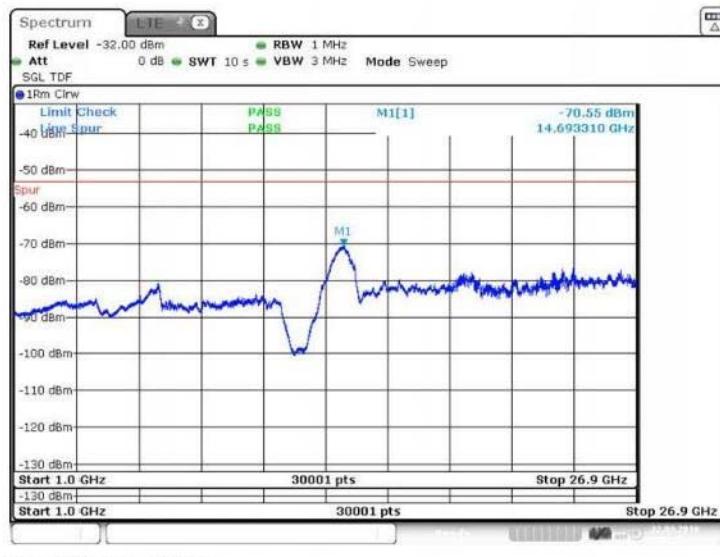
30. April 2018  
 Page 227 of 301



Product Service

FCC ID: VBNAHHB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 252: Spurious Emissions (1GHz – 26.9 GHz) – (2525 MHz, 2545 MHz)  
 (20+20 MHz Channel BW)**



Product Service

FCC ID: VBNAHHB-01  
IC ID: 661AI-AHHB

Test Report No:  
D564660096

#### 5.2.5. Test No. 5: Field Strength of Spurious Radiation

Config A, B, C, D, E, F, G, H:

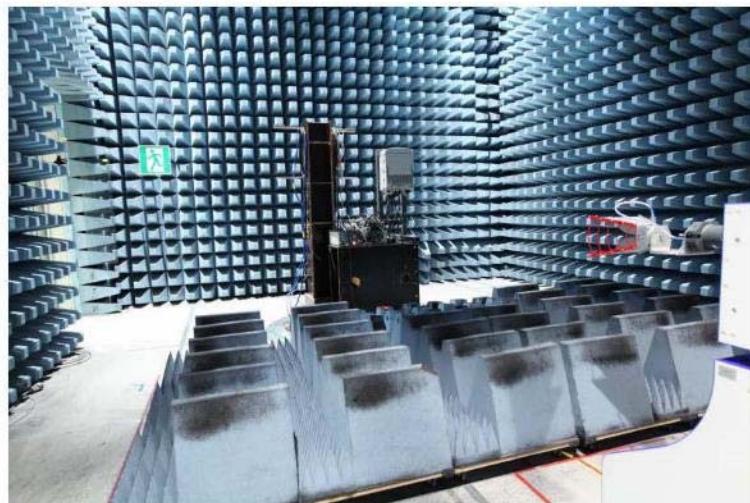


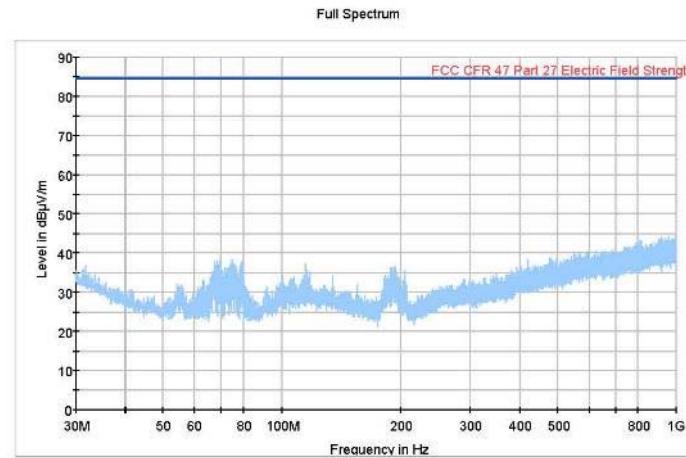
Figure 253 Photograph of the anechoic chamber with the EUT



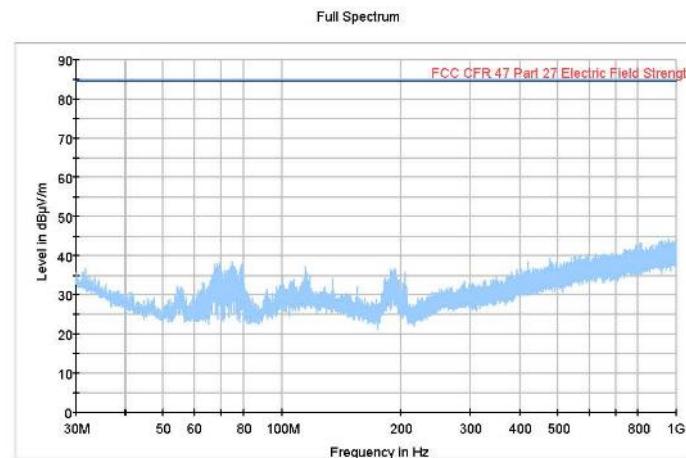
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096

FCC 47 CFR part 27**Config A:**

**Figure 254 Radiated Emission 30 MHz – 1 GHz (2622.5MHz) (5MHz Channel BW)**



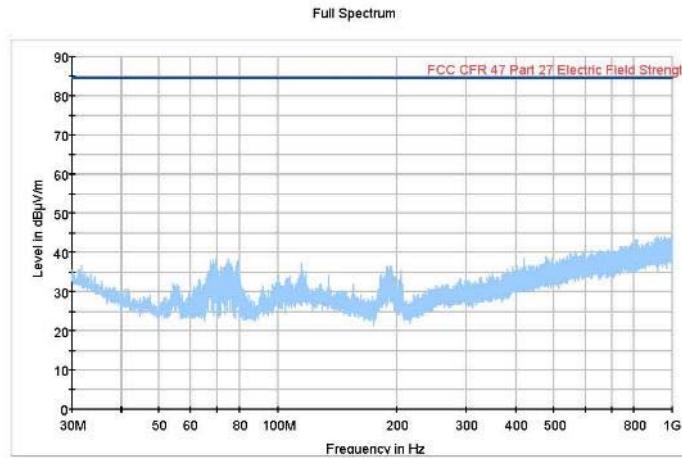
**Figure 255 Radiated Emission 30 MHz – 1 GHz (2655MHz) (5MHz Channel BW)**



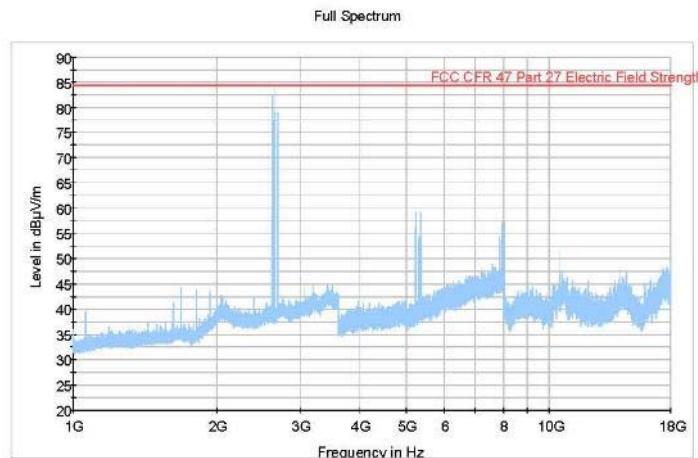
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 256 Radiated Emission 30 MHz – 1 GHz (2687.5 MHz) (5MHz Channel BW)**



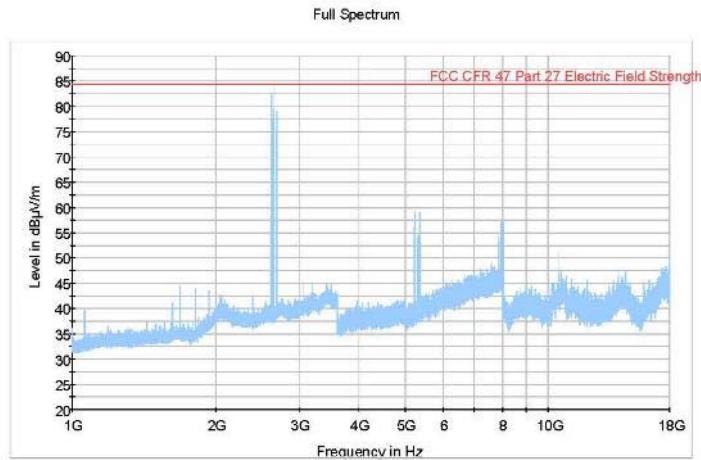
**Figure 257 Radiated Emission 1 GHz – 18 GHz (2622.5MHz) (5MHz Channel BW)**



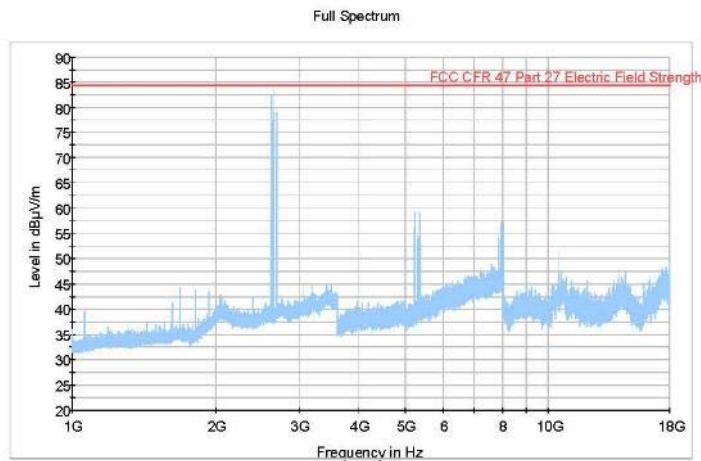
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 258 Radiated Emission 1 GHz – 18 GHz (2655MHz) (5MHz Channel BW)**



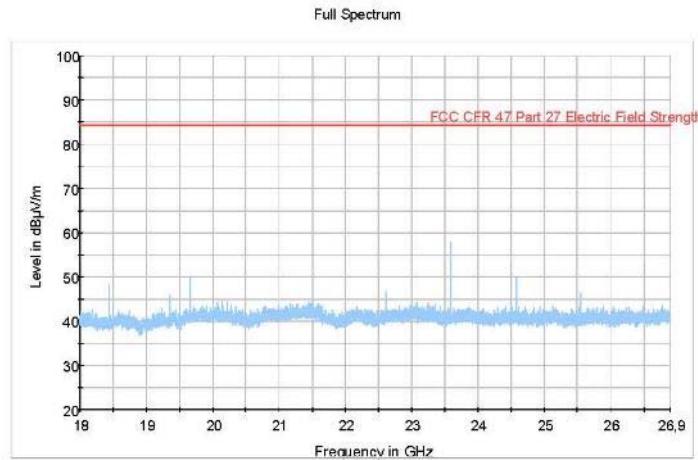
**Figure 259 Radiated Emission 1 GHz – 18 GHz (2687.5MHz) (5MHz Channel BW)**



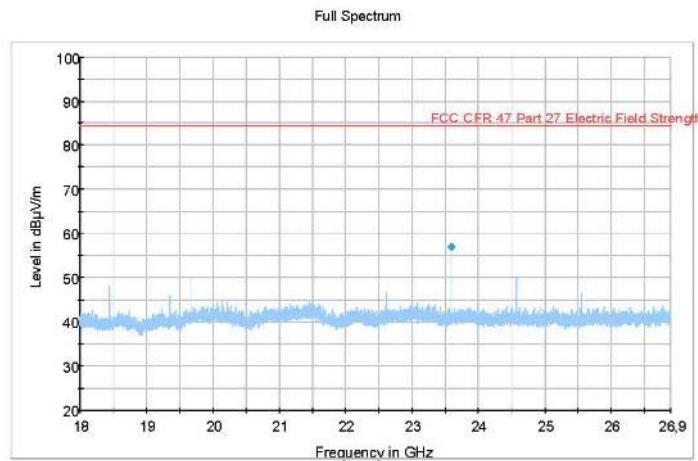
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 260 Radiated Emission 18 GHz – 26.9 GHz (2622.5MHz) (5MHz Channel BW)**



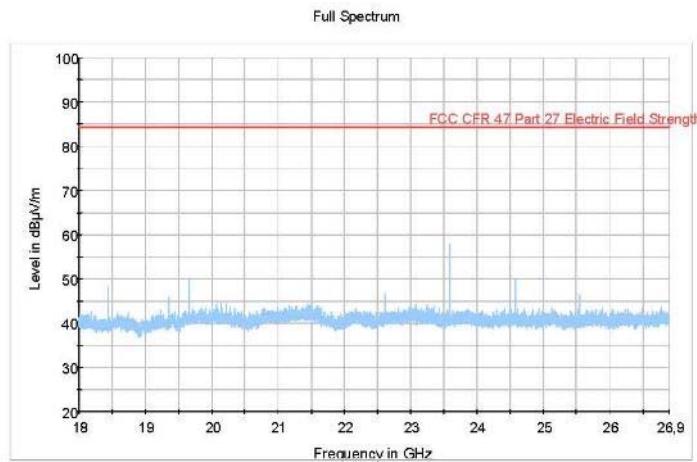
**Figure 261 Radiated Emission 18 GHz – 26.9GHz (2655MHz) (5MHz Channel BW)**



Product Service

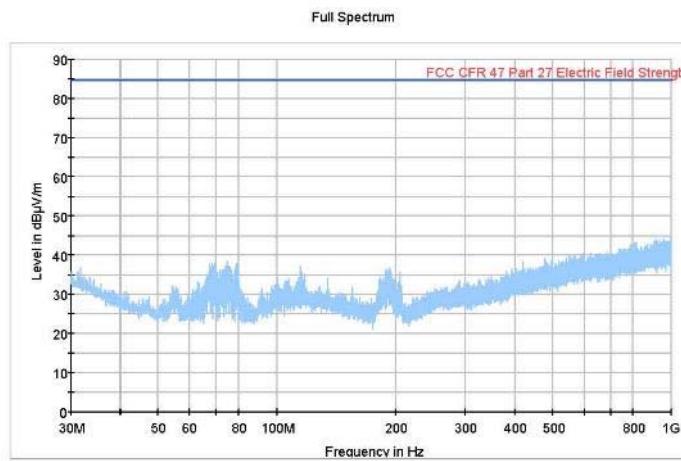
FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 262 Radiated Emission 18 GHz – 26.9 GHz (2687.5MHz) (5MHz Channel BW)**

**Config B:**



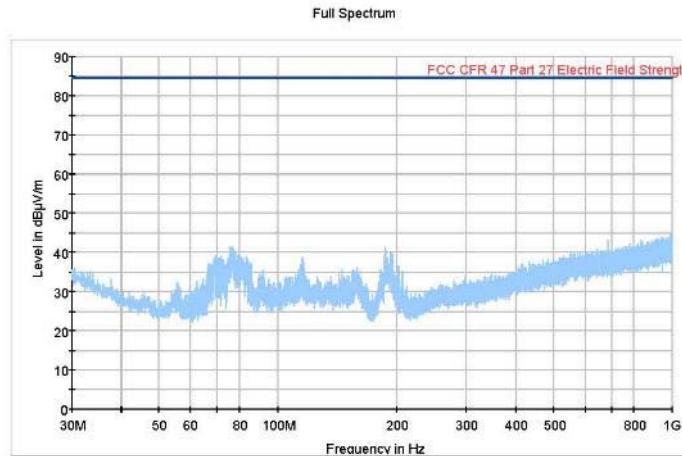
**Figure 263 Radiated Emission 30 MHz – 1 GHz (2625MHz) (10MHz Channel BW)**



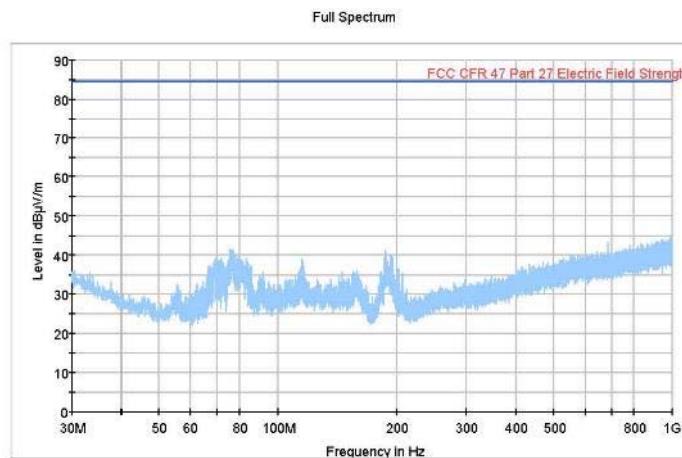
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 264 Radiated Emission 30 MHz – 1 GHz (2655MHz) (10MHz Channel BW)**



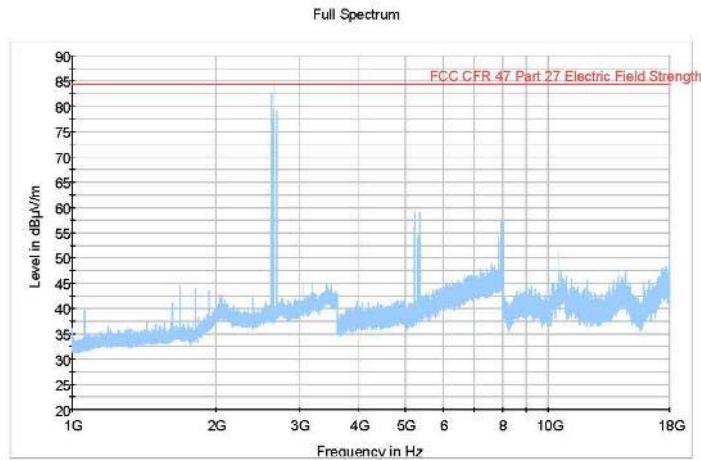
**Figure 265 Radiated Emission 30 MHz – 1 GHz (2685MHz) (10MHz Channel BW)**



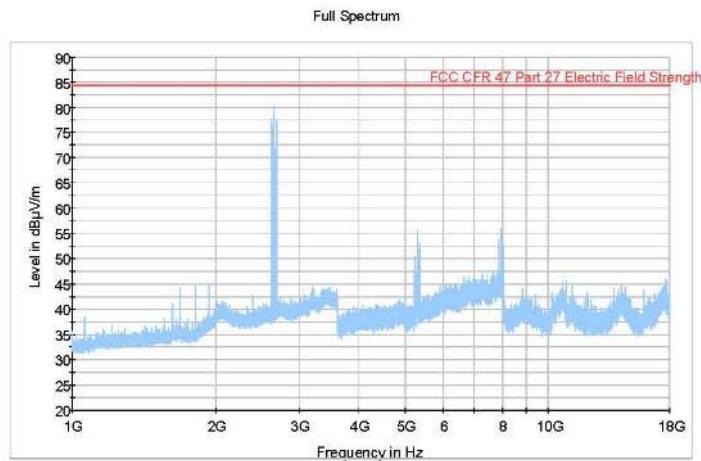
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 266 Radiated Emission 1GHz – 18GHz (2625MHz) (10MHz Channel BW)**



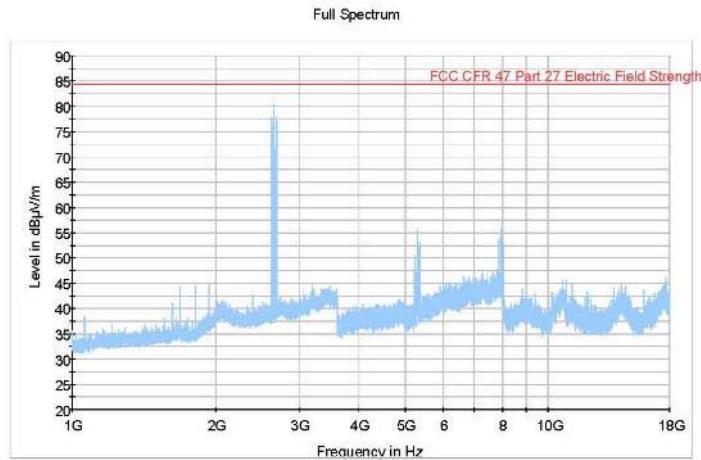
**Figure 267 Radiated Emission 1GHz – 18GHz (2655MHz) (10MHz Channel BW)**



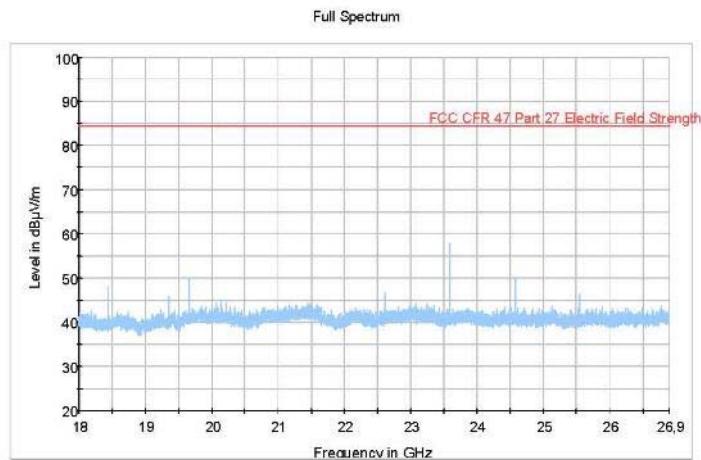
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 268 Radiated Emission 1GHz – 18GHz (2685MHz) (10MHz Channel BW)**



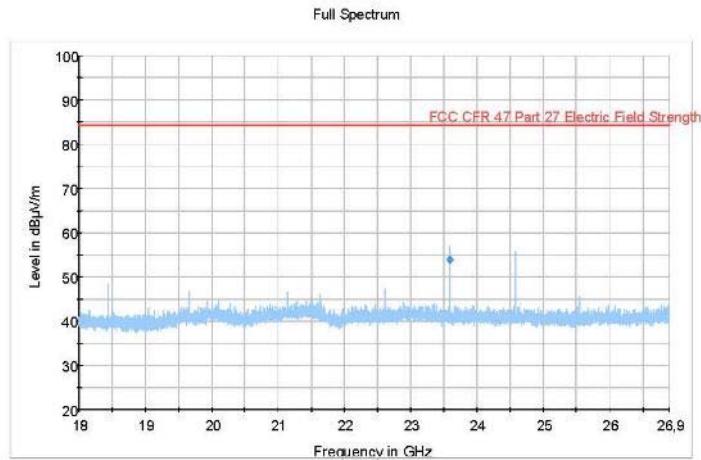
**Figure 269 Radiated Emission 18 GHz – 26.9 GHz (2625MHz) (10MHz Channel BW)**



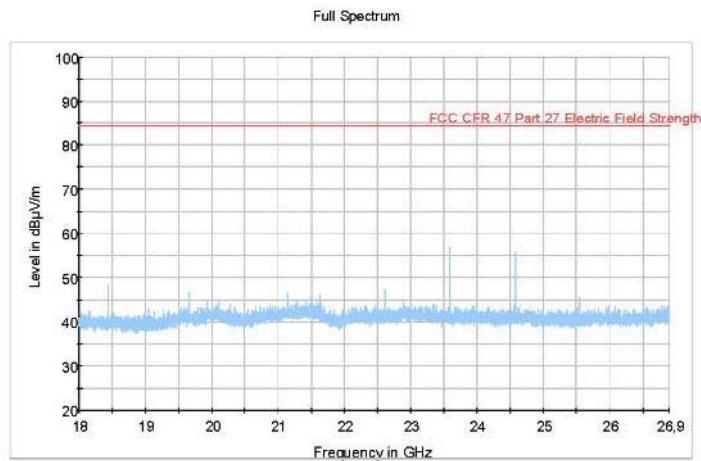
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 270 Radiated Emission 18 GHz – 26.9 GHz (2655MHz) (10MHz Channel BW)**



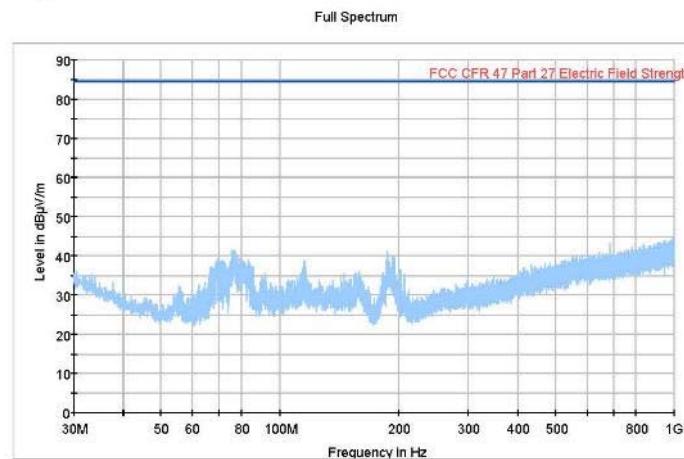
**Figure 271 Radiated Emission 18 GHz – 26.9 GHz (2685MHz) (10MHz Channel BW)**



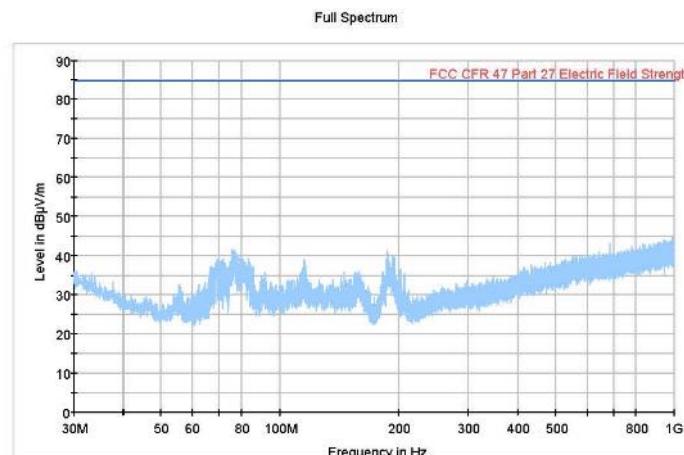
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096

**Config C:**

**Figure 272 Radiated Emission 30 MHz – 1 GHz (2627.5MHz) (15MHz Channel BW)**



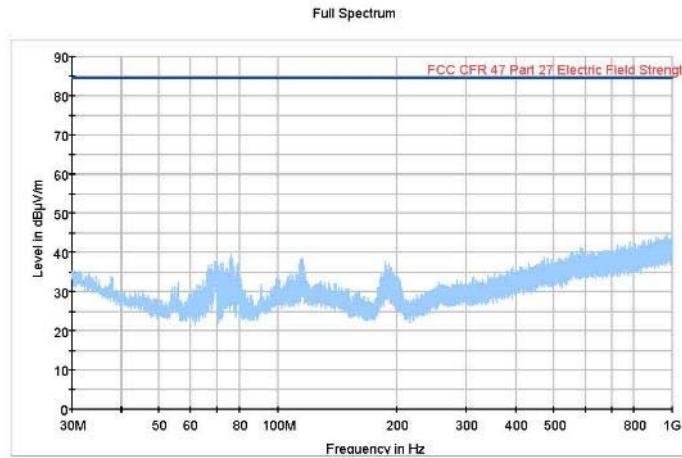
**Figure 273 Radiated Emission 30 MHz – 1 GHz (2655MHz) (15MHz Channel BW)**



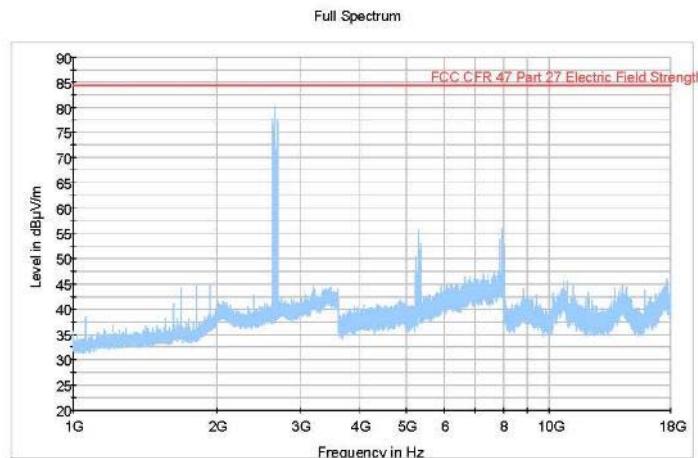
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 274 Radiated Emission 30 MHz – 1 GHz (2682.5MHz) (15MHz Channel BW)**



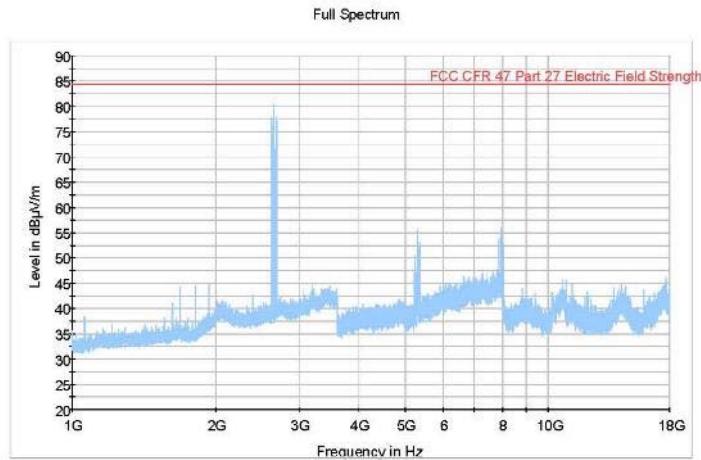
**Figure 275 Radiated Emission 1 GHz – 18 GHz (2627.5MHz) (15MHz Channel BW)**



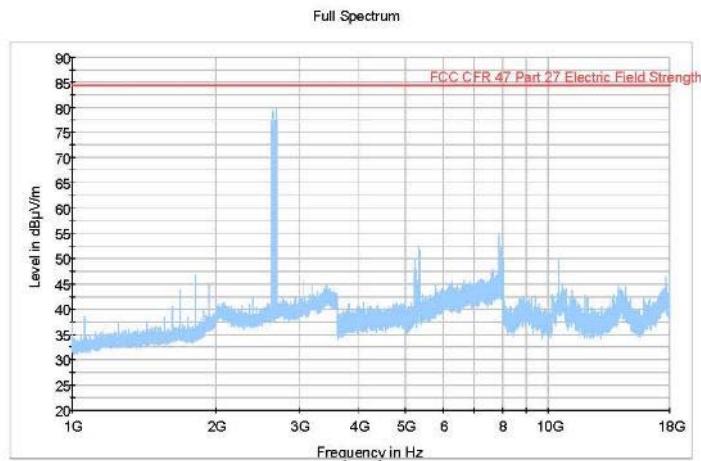
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 276 Radiated Emission 1 GHz – 18 GHz (2655MHz) (15MHz Channel BW)**



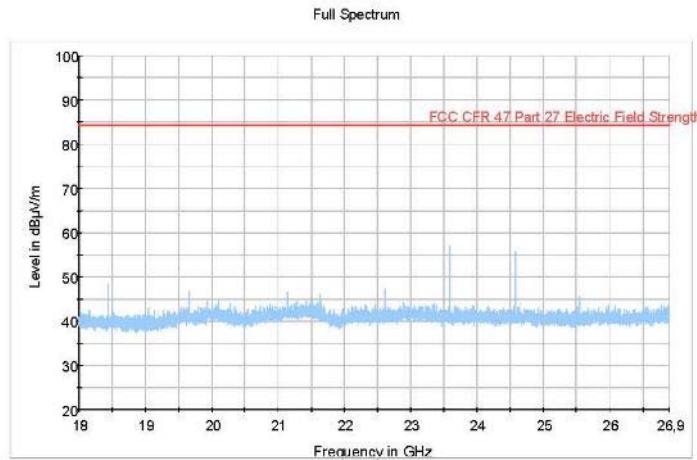
**Figure 277 Radiated Emission 1 GHz – 18 GHz (2682.5MHz) (15MHz Channel BW)**



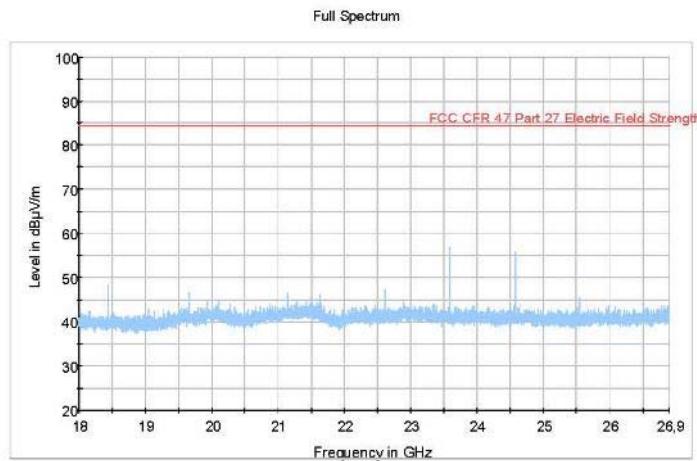
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 278 Radiated Emission 18 GHz – 26.9 GHz (2627.5MHz) (15MHz Channel BW)**



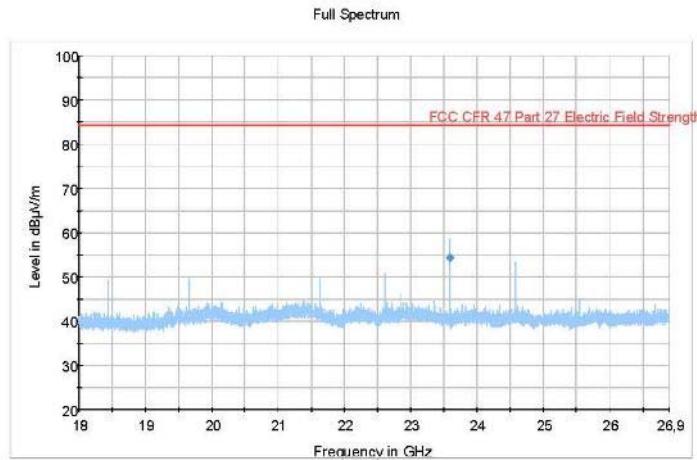
**Figure 279 Radiated Emission 18 GHz – 26.9 GHz (2655MHz) (15MHz Channel BW)**



Product Service

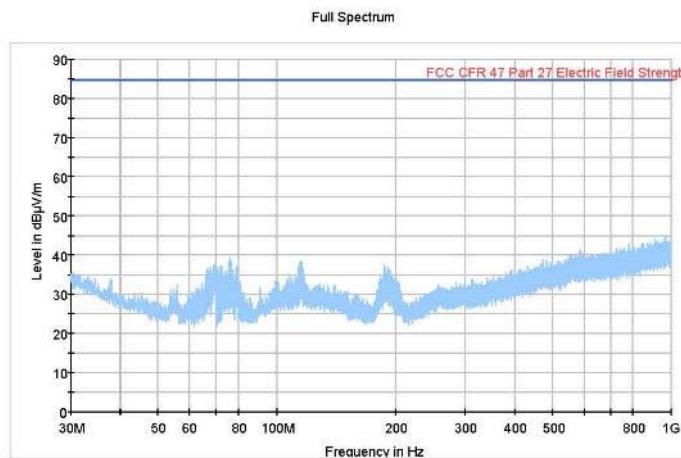
FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 280 Radiated Emission 18 GHz – 26.9 GHz (2682.5 MHz) (15MHz Channel BW)**

**Config D:**



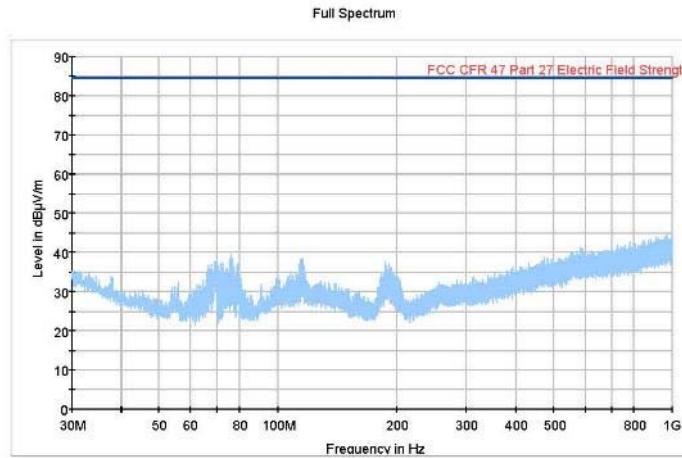
**Figure 281 Radiated Emission 30 MHz – 1 GHz (2630MHz) (20MHz Channel BW)**



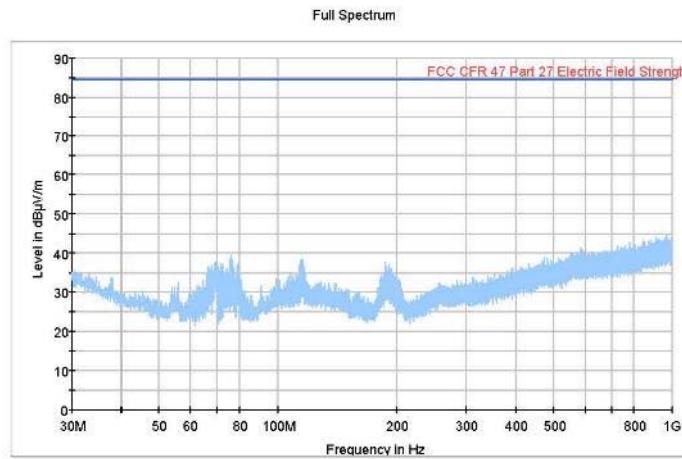
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 282 Radiated Emission 30 MHz – 1 GHz (2655MHz) (20MHz Channel BW)**



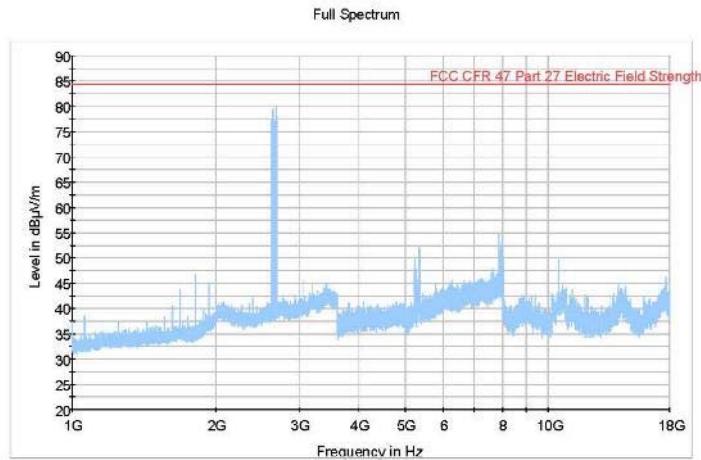
**Figure 283 Radiated Emission 30 MHz – 1 GHz (2680MHz) (20MHz Channel BW)**



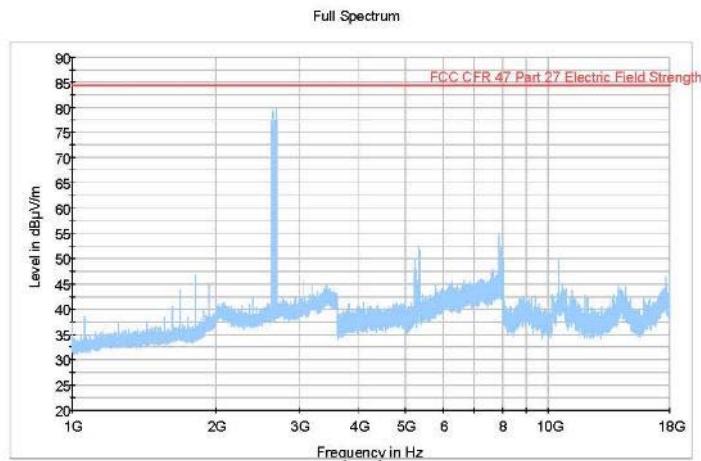
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 284 Radiated Emission 1 GHz – 18 GHz (2630MHz) (20MHz Channel BW)**



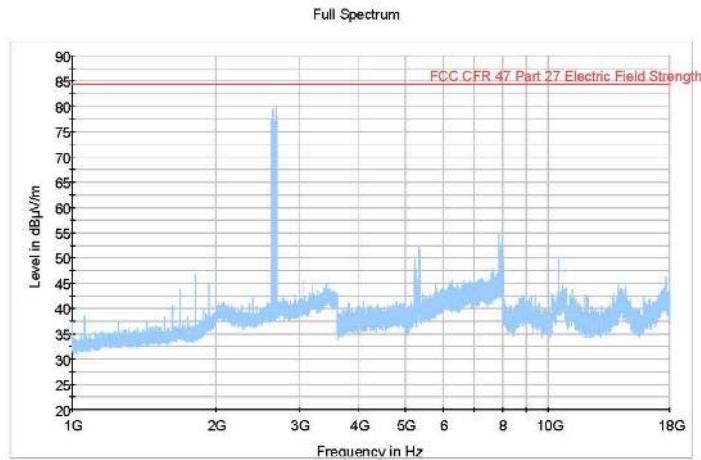
**Figure 285 Radiated Emission 1 GHz – 18 GHz (2655MHz) (20MHz Channel BW)**



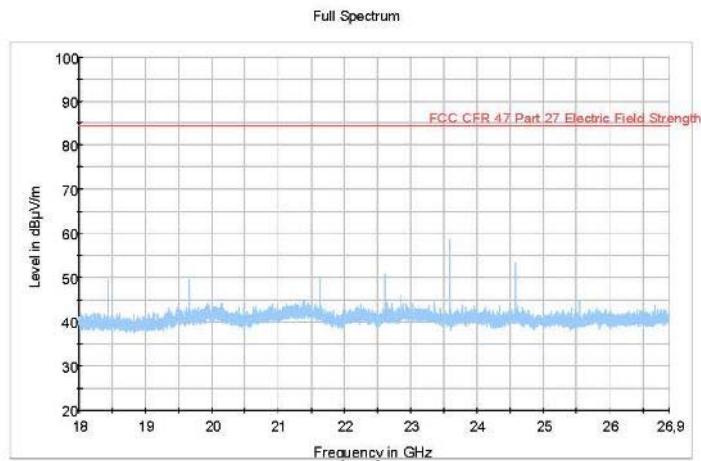
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 286 Radiated Emission 1 GHz – 18 GHz (2680MHz) (20MHz Channel BW)**



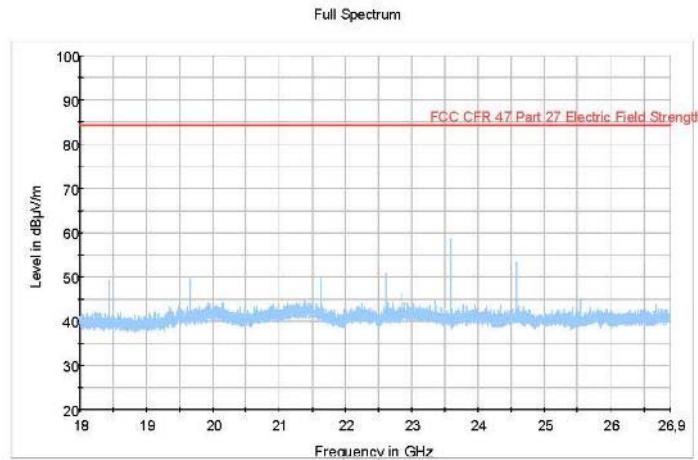
**Figure 287 Radiated Emission 18 GHz – 26.9 GHz (2630MHz) (20MHz Channel BW)**



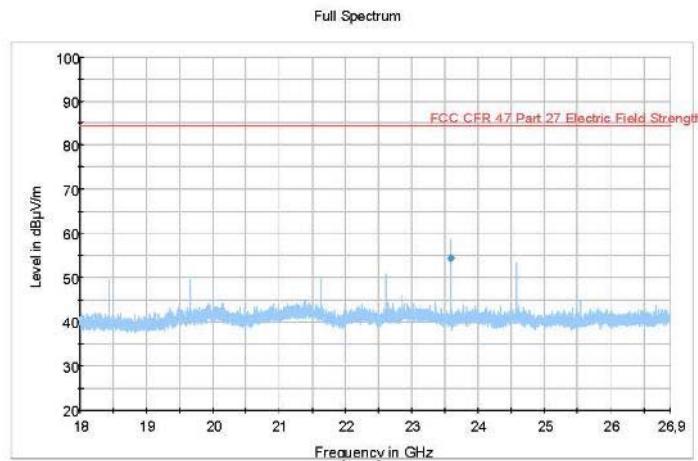
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 288 Radiated Emission 18 GHz – 26.9 GHz (2655MHz) (20MHz Channel BW)**



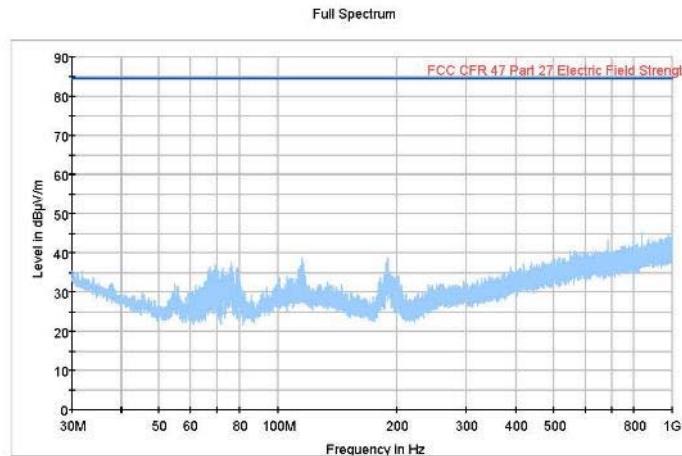
**Figure 289 Radiated Emission 18 GHz – 26.9 GHz (2680MHz) (20MHz Channel BW)**



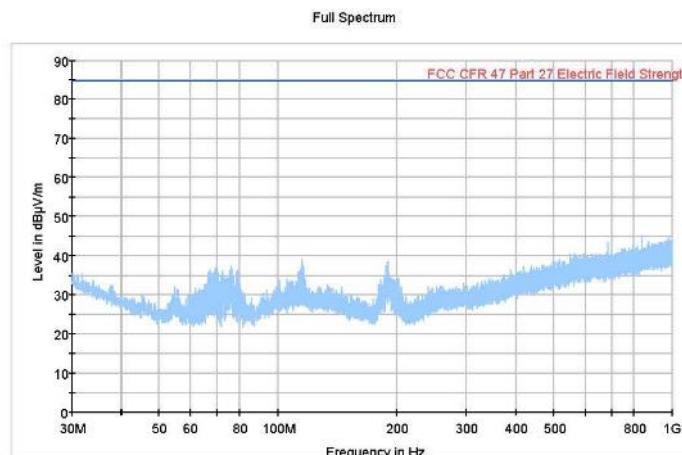
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096

**Config E:**

**Figure 290 Radiated Emission 30 MHz – 1 GHz (2622.5/2627.5MHz) (5+5 MHz Channel BW)**



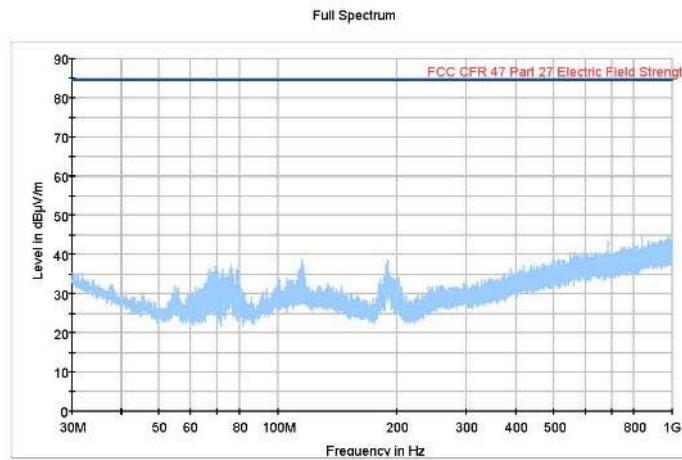
**Figure 291 Radiated Emission 30 MHz – 1 GHz (2652.5/2657.5MHz) (5+5 MHz Channel BW)**



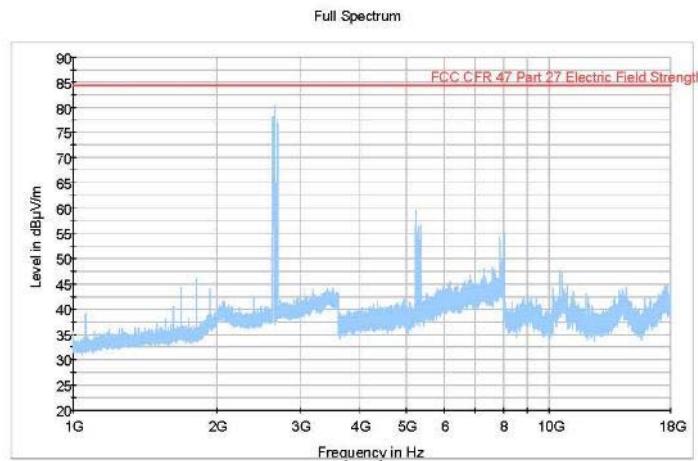
Product Service

FCC ID: VBNAHIIIB-01  
 IC ID: 661AI-AHHB

Test Report No:  
D564660096



**Figure 292 Radiated Emission 30 MHz – 1 GHz (2682.5/2687.5MHz) (5+5 MHz Channel BW)**



**Figure 293 Radiated Emission 1 GHz – 18 GHz (2622.5/2627.5MHz) (5+5 MHz Channel BW)**