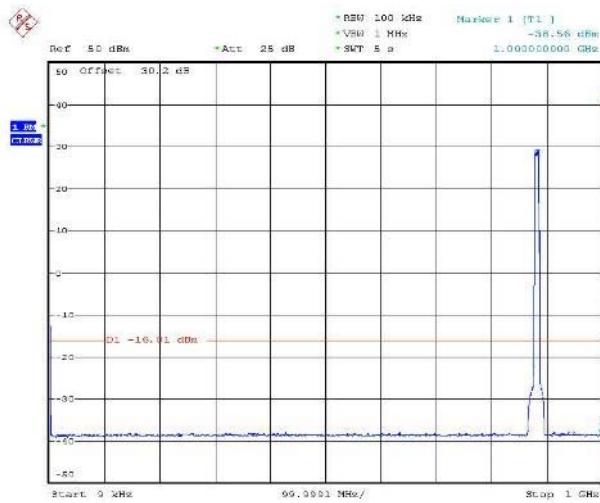




Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 26.APR.2017 09:07:20

Figure 558 Spurious Emissions (9kHz – 1GHz) - 64QAM (881.5 MHz) (10MHz Channel BW)



Date: 26.APR.2017 09:13:05

Figure 559 Spurious Emissions (1GHz – 8.94GHz) – 64QAM (881.5 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

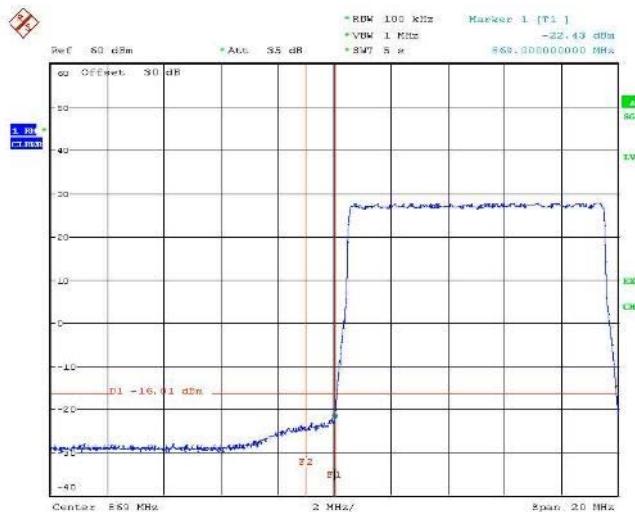
Page 370 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:41:47

**Figure 560 Spurious Emissions (Lower Band Edge) – 256QAM (874 MHz)
(10MHz Channel BW)**



Date: 26.APR.2017 10:22:59

**Figure 561 Spurious Emissions (Upper Band Edge) – 256QAM (889 MHz)
(10MHz Channel BW)**

FCC 47 CFR part 22
(2016)

23. May 2017

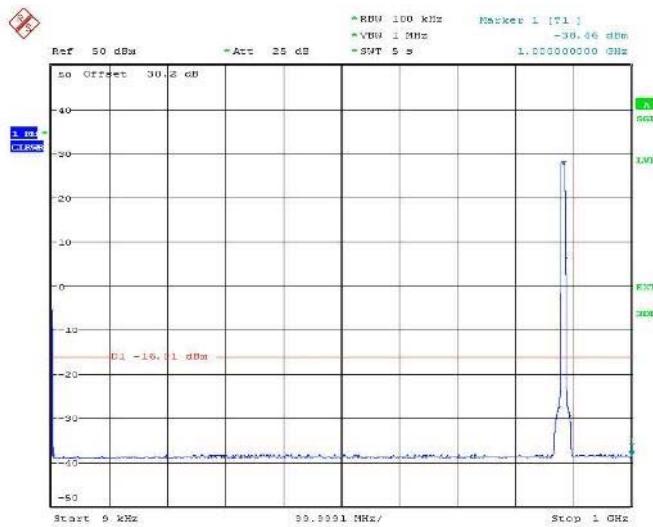
Page 371 of 427



Product Service

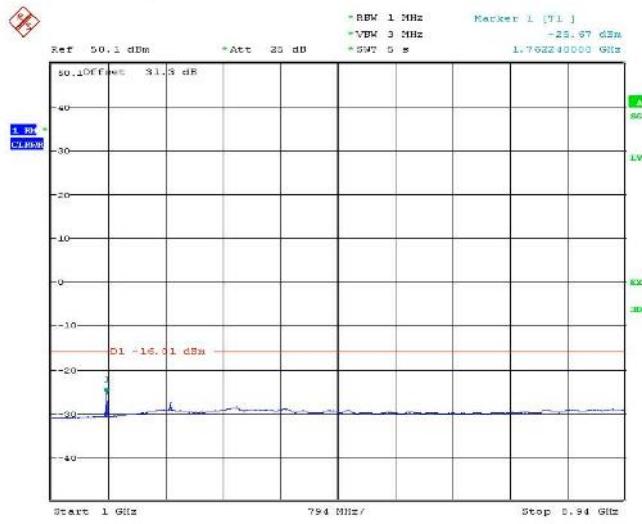
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 13:16:00

Figure 562 Spurious Emissions (9kHz – 1GHz) - 256QAM (881.5 MHz) (10MHz Channel BW)



Date: 27.APR.2017 13:19:32

Figure 563 Spurious Emissions (1GHz – 8.94GHz) – 256QAM (881.5 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

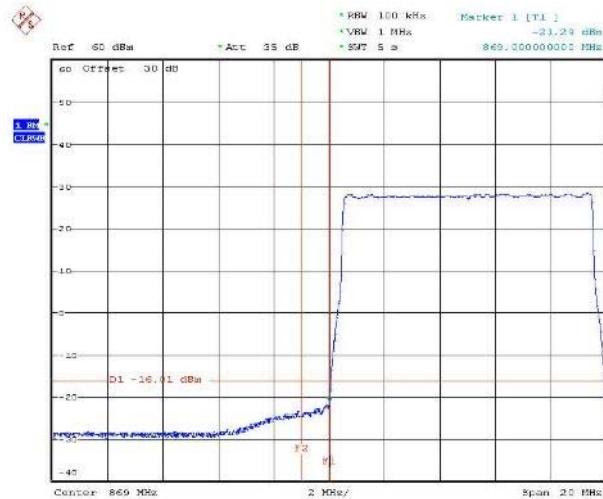
Page 372 of 427



Product Service

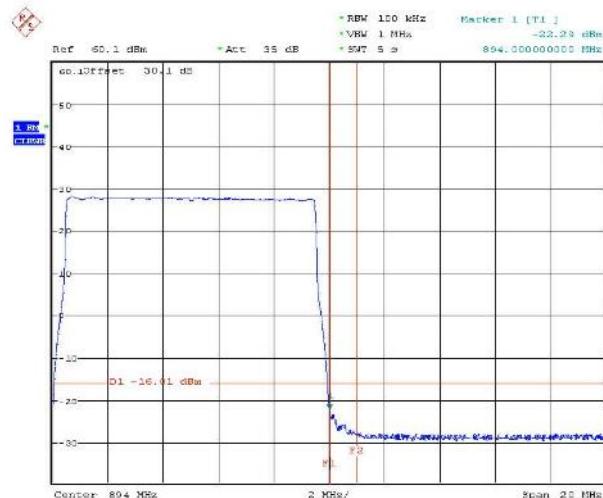
FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config I ANT3:

Date: 27.APR.2017 11:21:21

**Figure 564 Spurious Emissions (Lower Band Edge) – QPSK (874 MHz)
(10MHz Channel BW)**



Date: 28.APR.2017 09:08:00

**Figure 565 Spurious Emissions (Upper Band Edge) – QPSK (889 MHz)
(10MHz Channel BW)**

FCC 47 CFR part 22
(2016)

23. May 2017

Page 373 of 427



Product Service

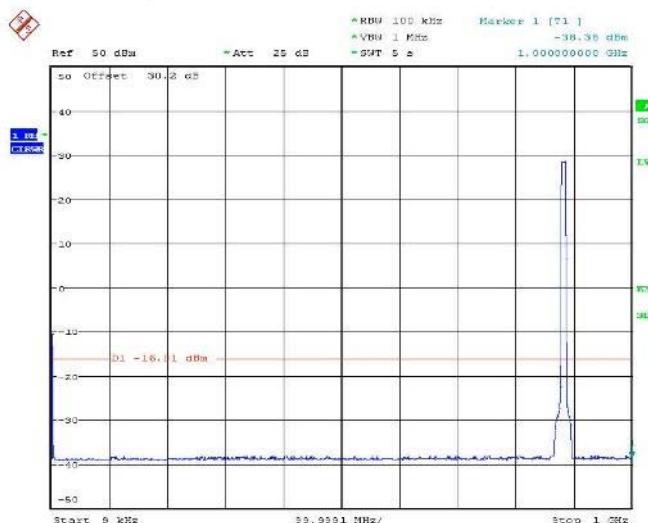
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 26.APR.2017 06:57:58

Figure 566 Spurious Emissions (9kHz – 1GHz) - QPSK (881.5 MHz) (10MHz Channel BW)



Date: 26.APR.2017 06:57:59

Figure 567 Spurious Emissions (1GHz – 8.94GHz) – QPSK (881.5 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 374 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

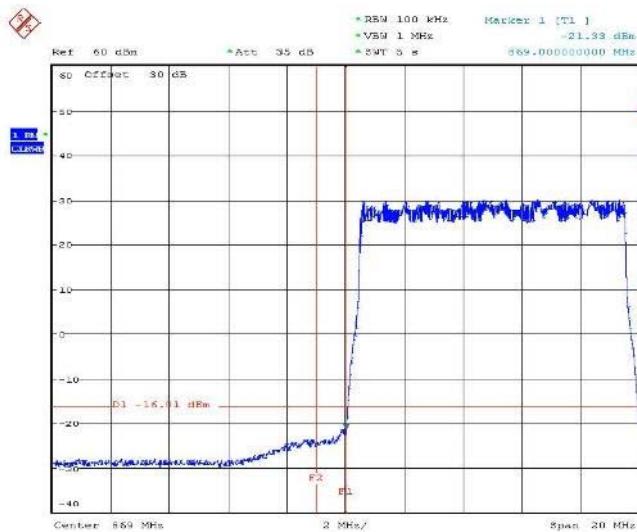


Figure 568 Spurious Emissions (Lower Band Edge) – 16QAM (874 MHz) (10MHz Channel BW)

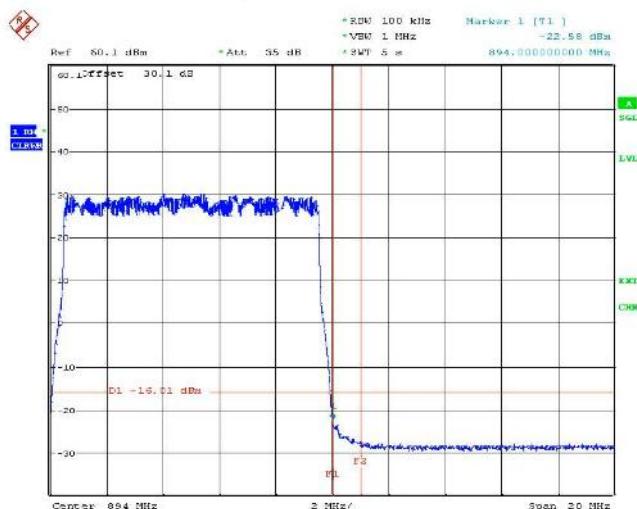


Figure 569 Spurious Emissions (Upper Band Edge) – 16QAM (889 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

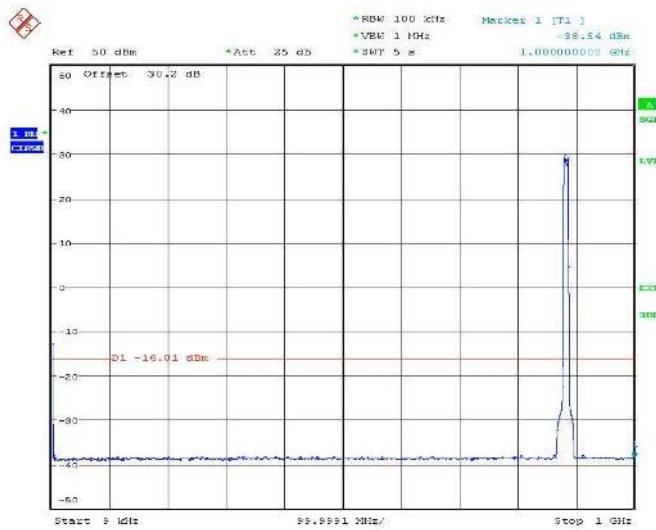
Page 375 of 427



Product Service

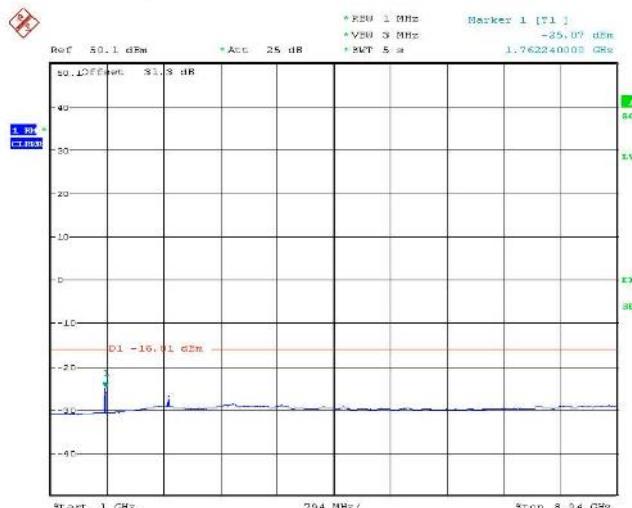
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 28.APR.2017 07:01:58

Figure 570 Spurious Emissions (9kHz – 1GHz) - 16QAM (881.5 MHz) (10MHz Channel BW)



Date: 28.APR.2017 07:03:18

Figure 571 Spurious Emissions (1GHz – 8.94GHz) – 16QAM (881.5 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

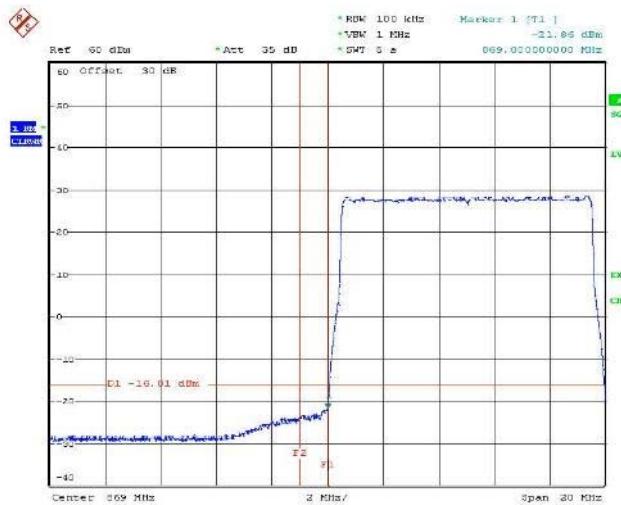
Page 376 of 427



Product Service

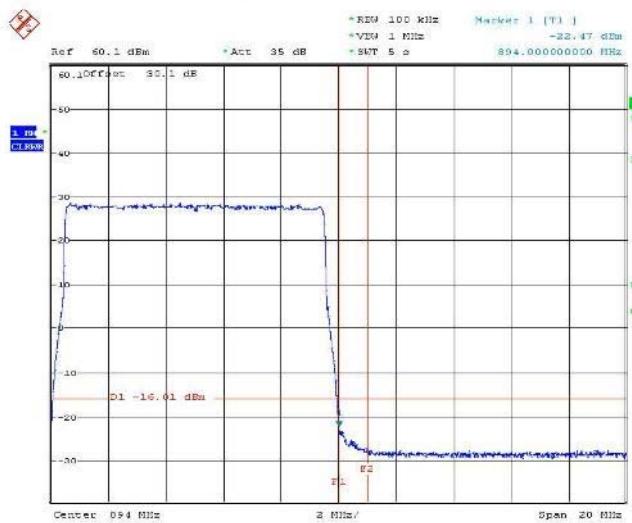
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 11:36:29

**Figure 572 Spurious Emissions (Lower Band Edge) – 64QAM (874 MHz)
(10MHz Channel BW)**



Date: 28.APR.2017 09:00:37

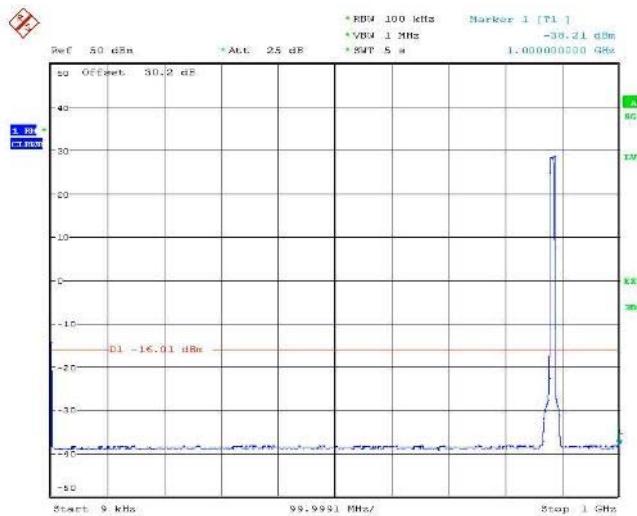
**Figure 573 Spurious Emissions (Upper Band Edge) – 64QAM (889 MHz)
(10MHz Channel BW)**



Product Service

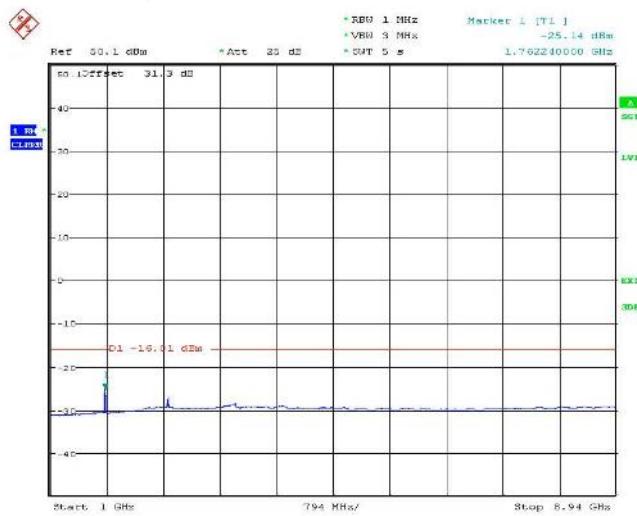
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 28.APR.2017 07:07:12

Figure 574 Spurious Emissions (9kHz – 1GHz) - 64QAM (881.5 MHz) (10MHz Channel BW)



Date: 28.APR.2017 07:07:57

Figure 575 Spurious Emissions (1GHz – 8.94GHz) – 64QAM (881.5 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 378 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

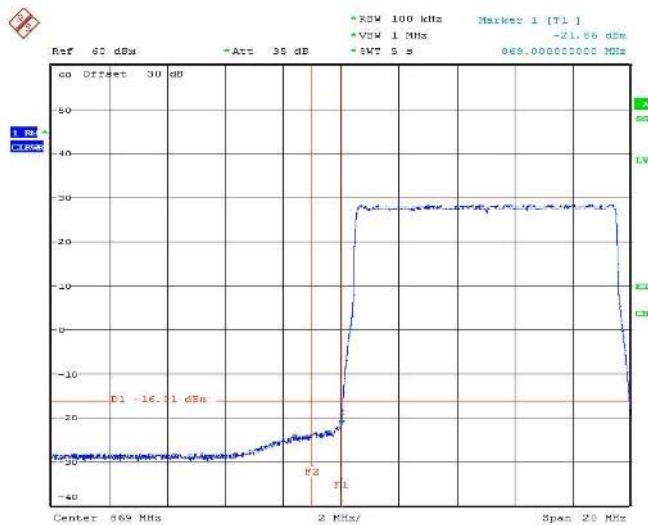


Figure 576 Spurious Emissions (Lower Band Edge) – 256QAM (874 MHz) (10MHz Channel BW)

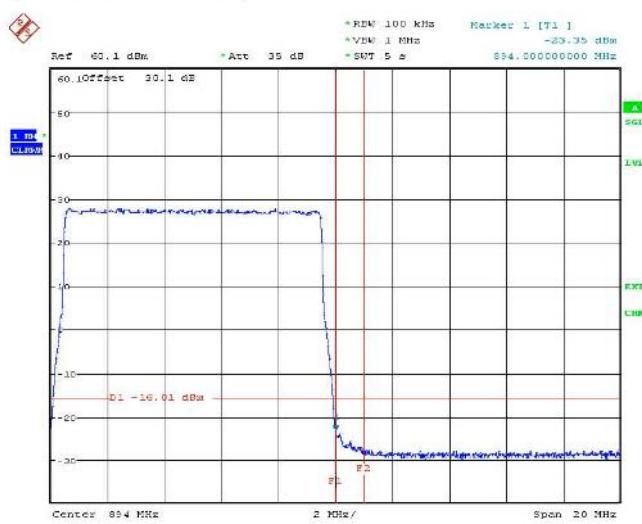


Figure 577 Spurious Emissions (Upper Band Edge) – 256QAM (889 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

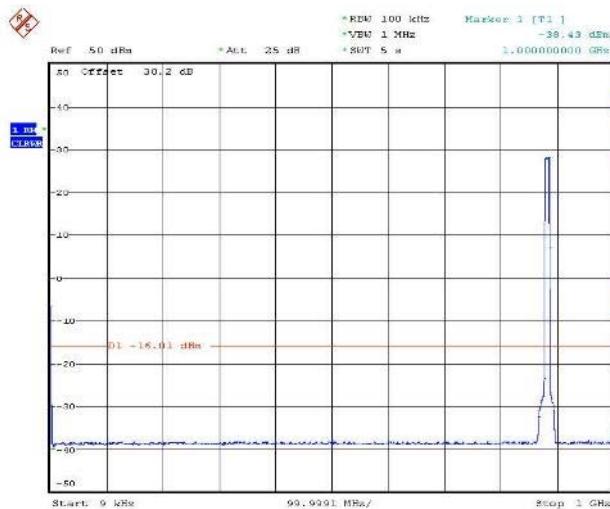
Page 379 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 13:35:37

Figure 578 Spurious Emissions (9kHz – 1GHz) - 256QAM (881.5 MHz) (10MHz Channel BW)



Date: 27.APR.2017 13:42:23

Figure 579 Spurious Emissions (1GHz – 8.94GHz) – 256QAM (881.5 MHz) (10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

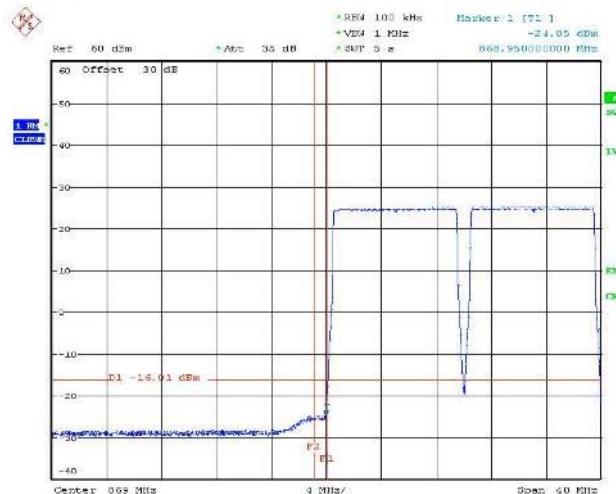
Page 380 of 427



Product Service

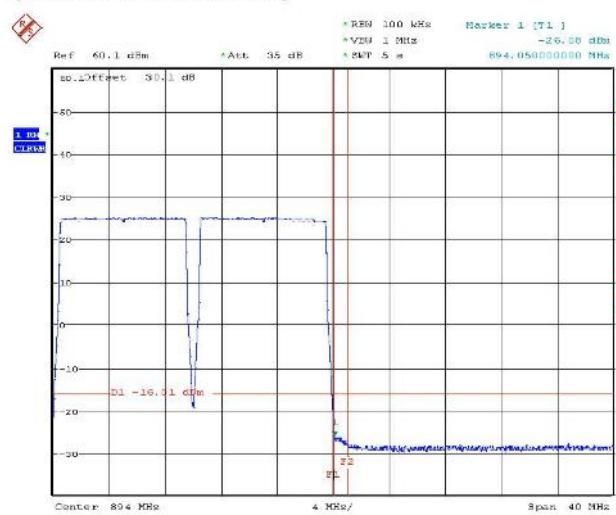
FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config J ANT1:

Date: 28-APR-2017 11:16:46

Figure 580 Spurious Emissions (Lower Band Edge) – QPSK (874/884 MHz) (10+10MHz Channel BW)



Date: 2-MAY-2017 09:52:48

Figure 581 Spurious Emissions (Upper Band Edge) – QPSK (879/889 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 381 of 427



Product Service

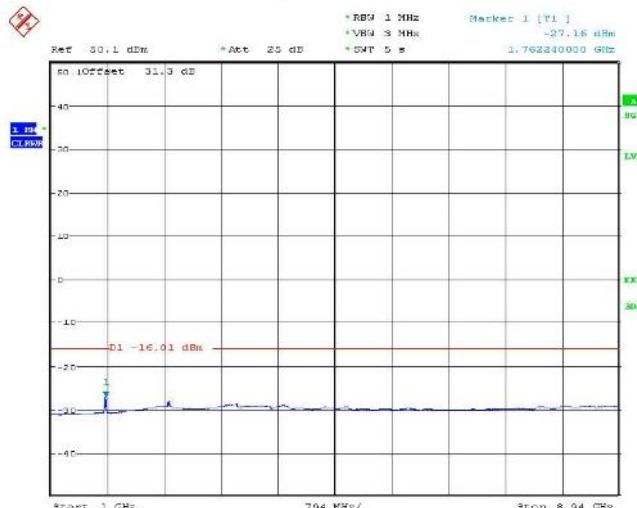
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 2.MAY.2017 07:12:20

Figure 582 Spurious Emissions (9kHz – 1GHz) - QPSK (876.5/886.5 MHz) (10+10MHz Channel BW)



Date: 2.MAY.2017 07:13:19

Figure 583 Spurious Emissions (1GHz – 8.94GHz) – QPSK (876.5/886.5 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

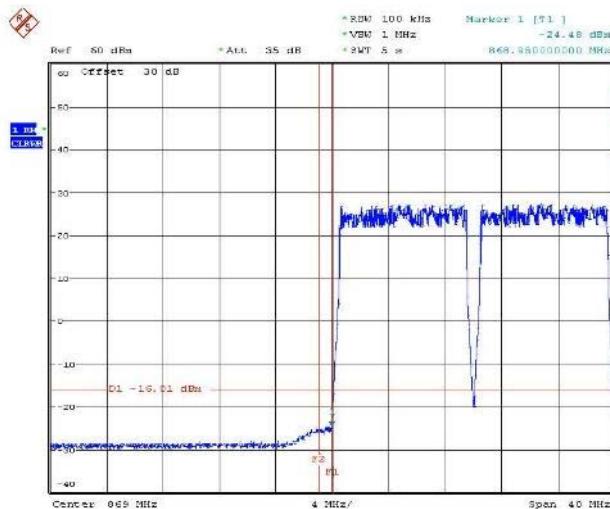
Page 382 of 427



Product Service

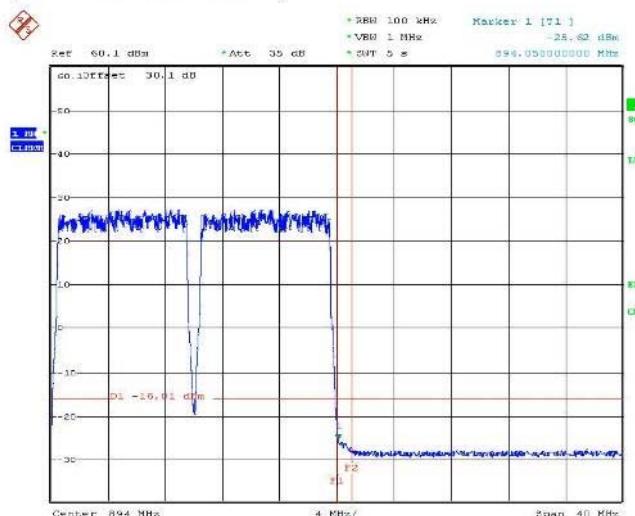
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 28.APR.2017 11:23:20

Figure 584 Spurious Emissions (Lower Band Edge) – 16QAM (874/884 MHz) (10+10MHz Channel BW)



Date: 2.MAY.2017 08:55:29

Figure 585 Spurious Emissions (Upper Band Edge) – 16QAM (879/889 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 383 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

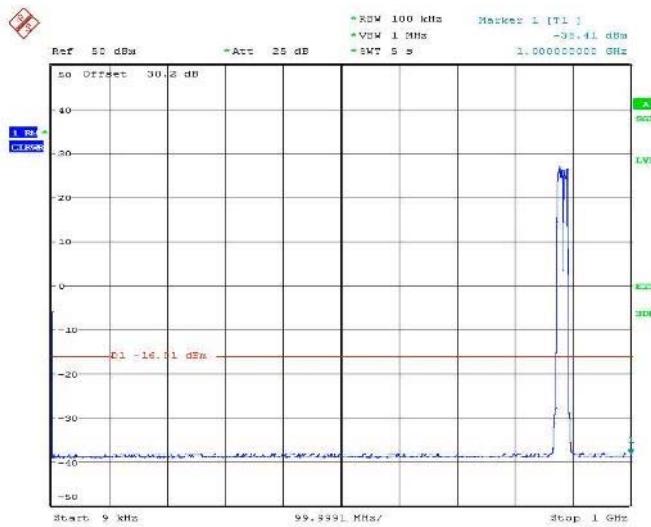


Figure 586 Spurious Emissions (9kHz – 1GHz) - 16QAM (876.5/886.5 MHz) (10+10MHz Channel BW)

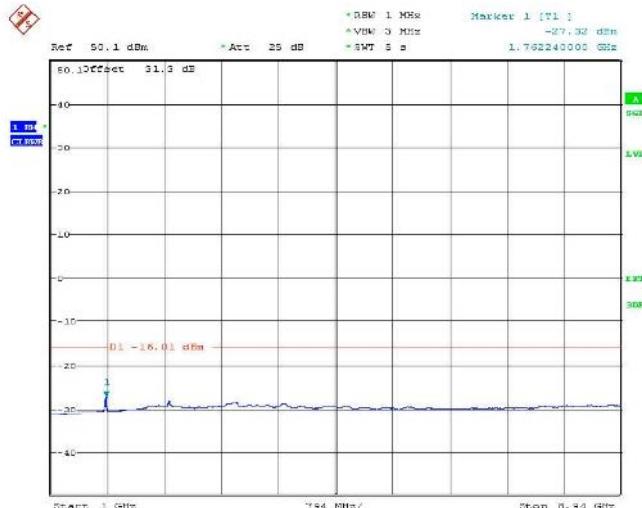


Figure 587 Spurious Emissions (1GHz – 8.94GHz) – 16QAM (876.5/886.5 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 384 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

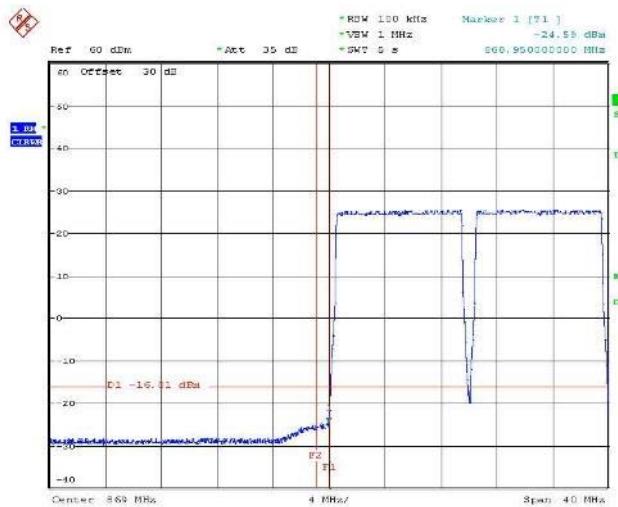


Figure 588 Spurious Emissions (Lower Band Edge) – 64QAM (874/884 MHz) (10+10MHz Channel BW)



Figure 589 Spurious Emissions (Upper Band Edge) – 64QAM (879/889 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

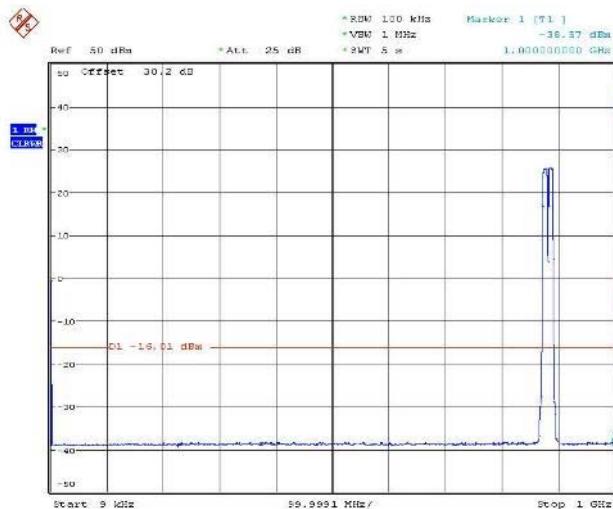
Page 385 of 427



Product Service

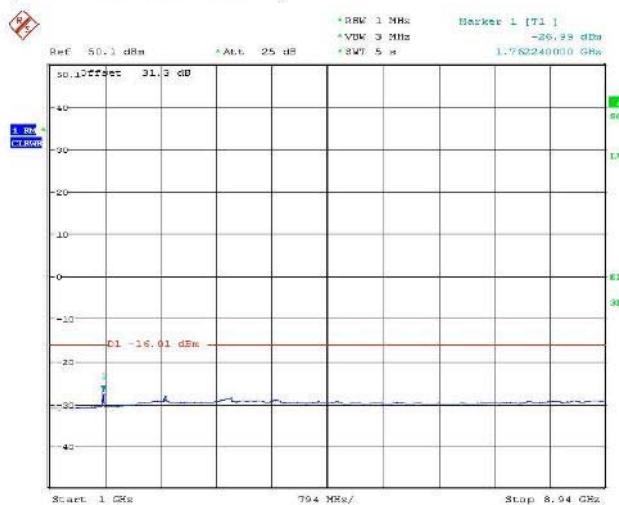
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 2.MAY.2017 07:30:25

**Figure 590 Spurious Emissions (9kHz – 1GHz) - 64QAM (876.5/886.5 MHz)
(10+10MHz Channel BW)**



Date: 2.MAY.2017 07:31:26

**Figure 591 Spurious Emissions (1GHz – 8.94GHz) – 64QAM (876.5/886.5 MHz)
(10+10MHz Channel BW)**

FCC 47 CFR part 22
(2016)

23. May 2017

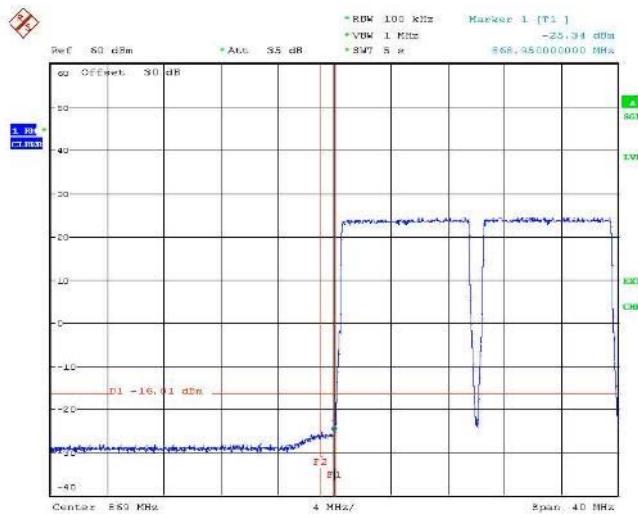
Page 386 of 427



Product Service

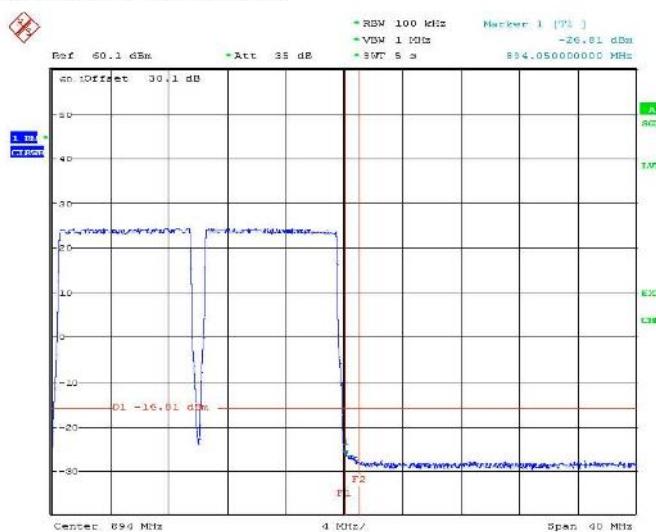
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 28.APR.2017 13:02:05

Figure 592 Spurious Emissions (Lower Band Edge) – 256QAM (874/884 MHz) (10+10MHz Channel BW)



Date: 2.MAY.2017 10:01:19

Figure 593 Spurious Emissions (Upper Band Edge) – 256QAM (879/889 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

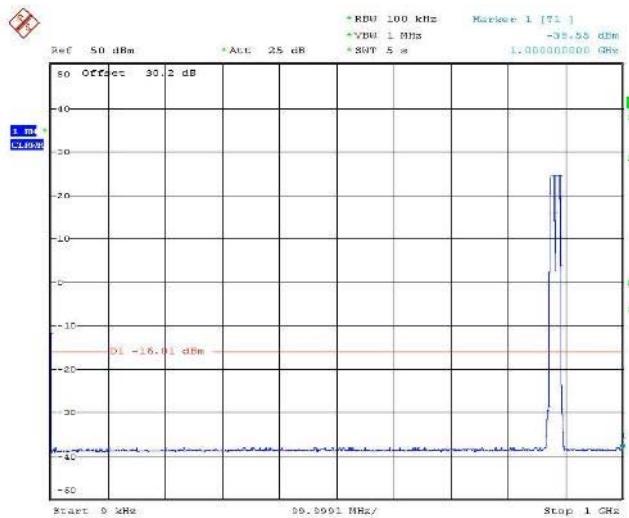
Page 387 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 26.APR.2017 13:16:44

Figure 594 Spurious Emissions (9kHz – 1GHz) - 256QAM (876.5/886.5 MHz) (10+10MHz Channel BW)



Date: 26.APR.2017 13:18:03

Figure 595 Spurious Emissions (1GHz – 8.94GHz) – 256QAM (876.5/886.5 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

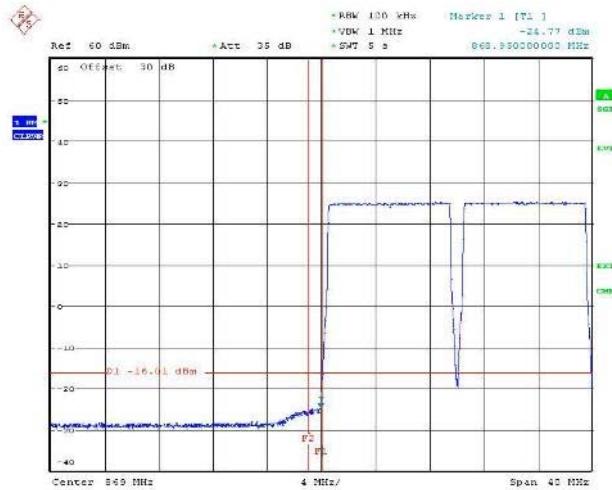
Page 388 of 427



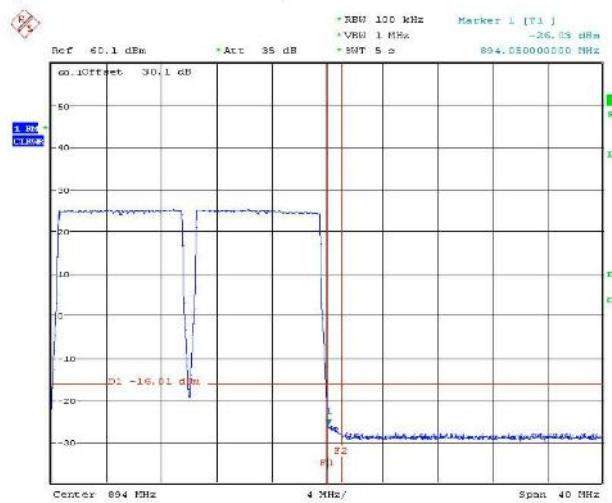
Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config J ANT3:

**Figure 596 Spurious Emissions (Lower Band Edge) – QPSK (874/884 MHz)
(10+10MHz Channel BW)**



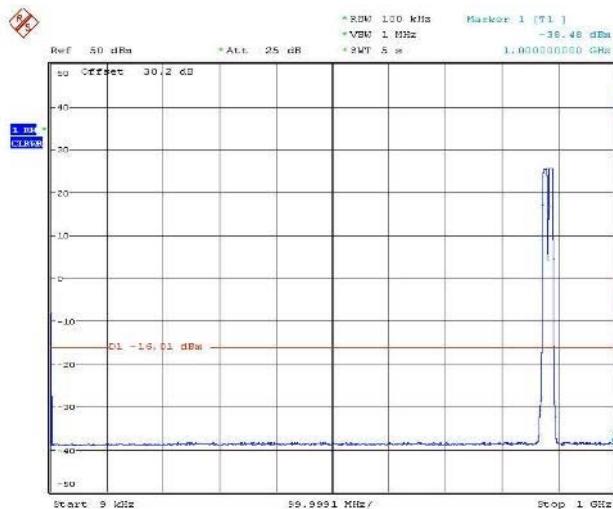
**Figure 597 Spurious Emissions (Upper Band Edge) – QPSK (879/889 MHz)
(10+10MHz Channel BW)**



Product Service

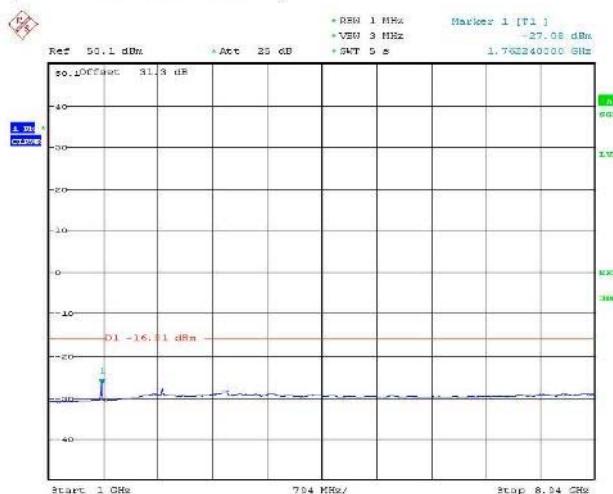
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 2.MAY.2017 07:58:08

**Figure 598 Spurious Emissions (9kHz – 1GHz) - QPSK (876.5/886.5 MHz)
(10+10MHz Channel BW)**



Date: 2.MAY.2017 07:59:57

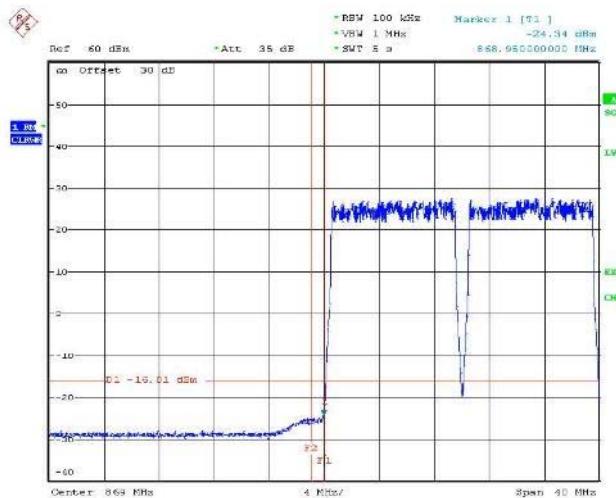
**Figure 599 Spurious Emissions (1GHz – 8.94GHz) – QPSK (876.5/886.5 MHz)
(10+10MHz Channel BW)**



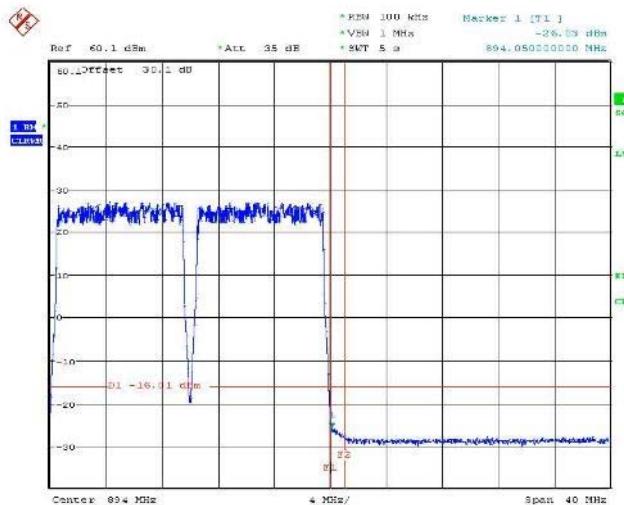
Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



**Figure 600 Spurious Emissions (Lower Band Edge) – 16QAM (874/884 MHz)
(10+10MHz Channel BW)**



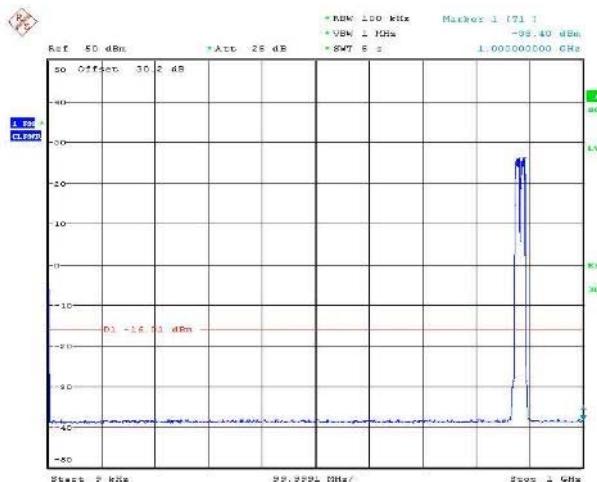
**Figure 601 Spurious Emissions (Upper Band Edge) – 16QAM (879/889 MHz)
(10+10MHz Channel BW)**



Product Service

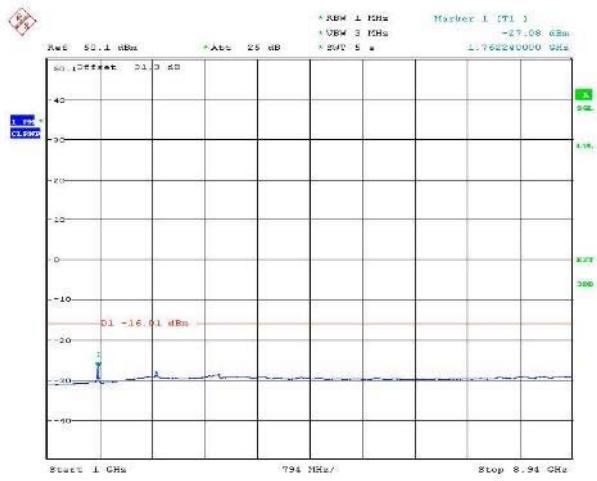
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 2.MAY.2017 08:03:15

Figure 602 Spurious Emissions (9kHz – 1GHz) - 16QAM (876.5/886.5 MHz) (10+10MHz Channel BW)



Date: 3.MAY.2017 07:58:57

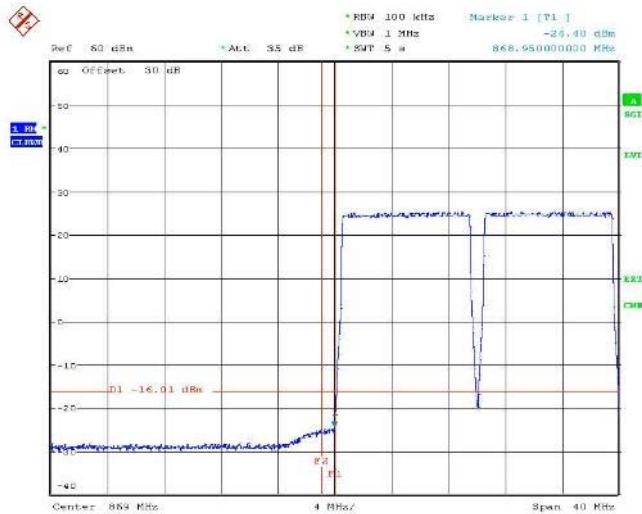
Figure 603 Spurious Emissions (1GHz – 8.94GHz) – (876.5/886.5 MHz) (10+10MHz Channel BW)



Product Service

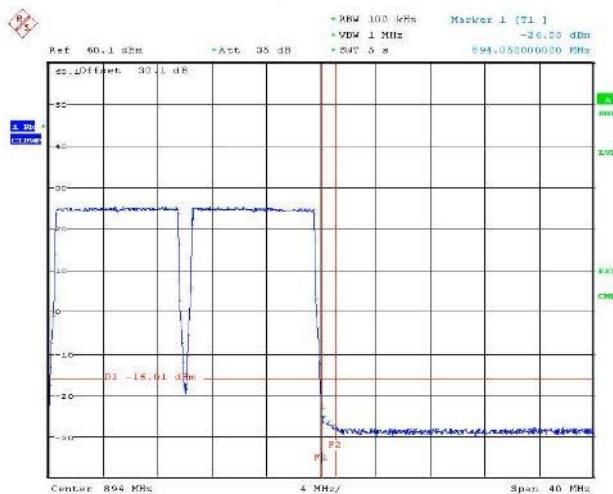
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 28.APR.2017 11:49:20

**Figure 604 Spurious Emissions (Lower Band Edge) – 64QAM (874/884 MHz)
(10+10MHz Channel BW)**



Date: 2.MAY.2017 08:47:18

**Figure 605 Spurious Emissions (Upper Band Edge) – 64QAM (879/889 MHz)
(10+10MHz Channel BW)**

FCC 47 CFR part 22
(2016)

23. May 2017

Page 393 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



**Figure 606 Spurious Emissions (9kHz – 1GHz) - 64QAM (876.5/886.5 MHz)
(10+10MHz Channel BW)**



**Figure 607 Spurious Emissions (1GHz – 8.94GHz) – 64QAM (876.5/886.5 MHz)
(10+10MHz Channel BW)**

FCC 47 CFR part 22
(2016)

23. May 2017

Page 394 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

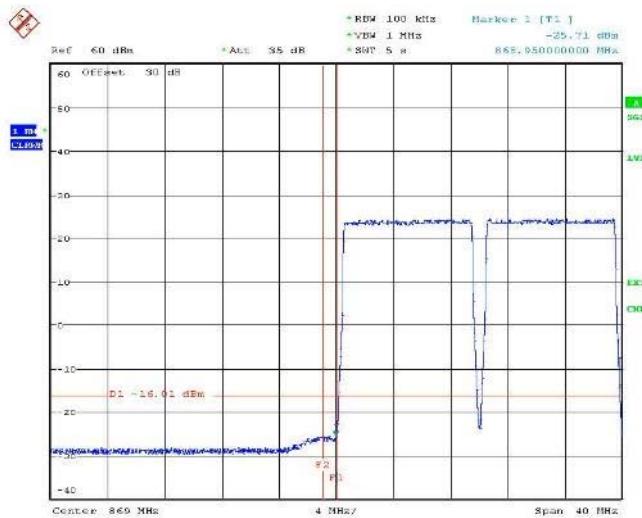


Figure 608 Spurious Emissions (Lower Band Edge) – 256QAM (874/884 MHz) (10+10MHz Channel BW)

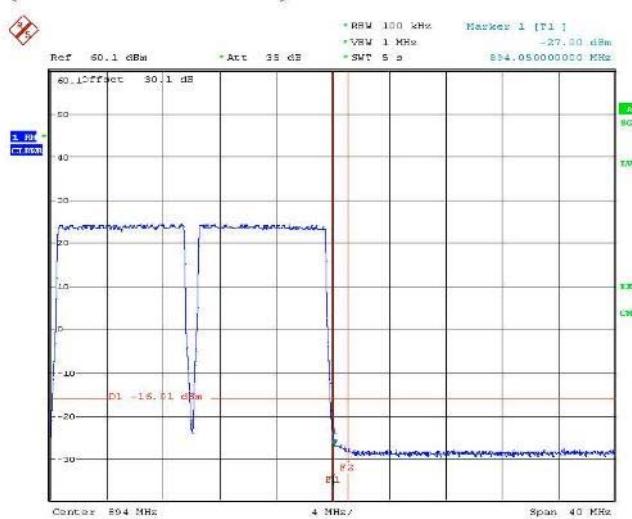


Figure 609 Spurious Emissions (Upper Band Edge) – 256QAM (879/889 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

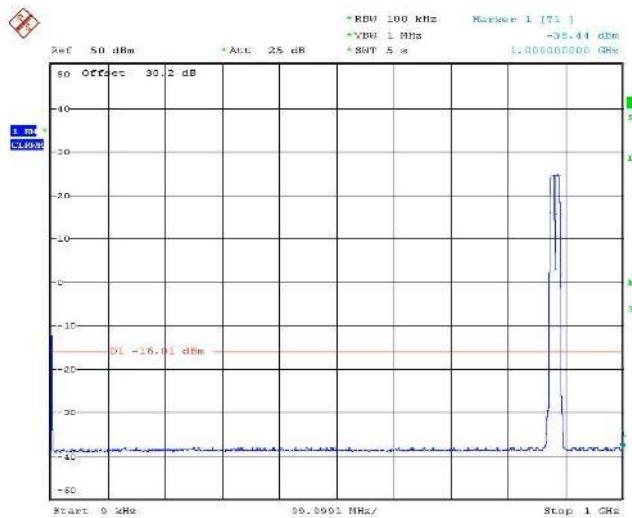
Page 395 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 20.APR.2017 13:31:10

Figure 610 Spurious Emissions (9kHz – 1GHz) - 256QAM (876.5/886.5 MHz) (10+10MHz Channel BW)



Date: 20.APR.2017 13:32:06

Figure 611 Spurious Emissions (1GHz – 8.94GHz) – 256QAM (876.5/886.5 MHz) (10+10MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 396 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

5.2.4. Test No. 5: Field Strength of Spurious Radiation

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

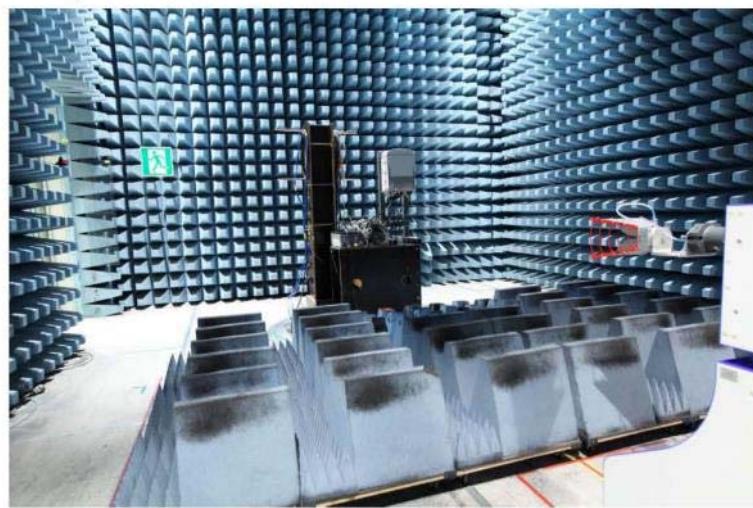


Figure 612 Photograph of the anechoic chamber with the EUT

Config A:

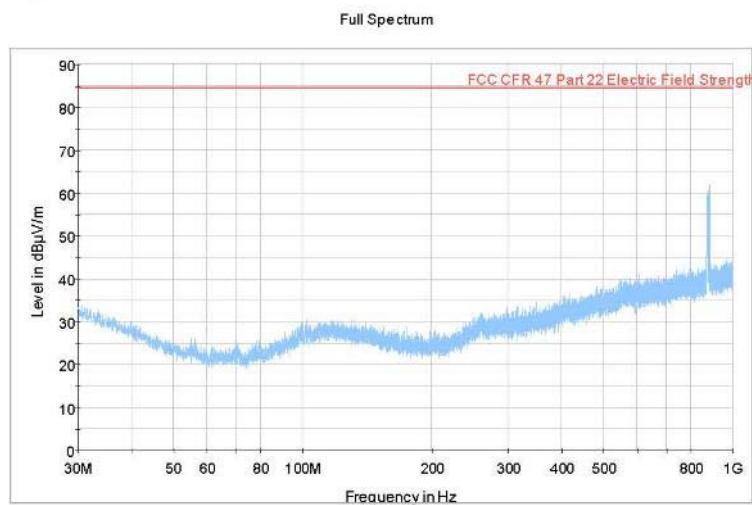


Figure 613 Radiated Emission 30 MHz – 1 GHz (871.5 MHz) (5MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

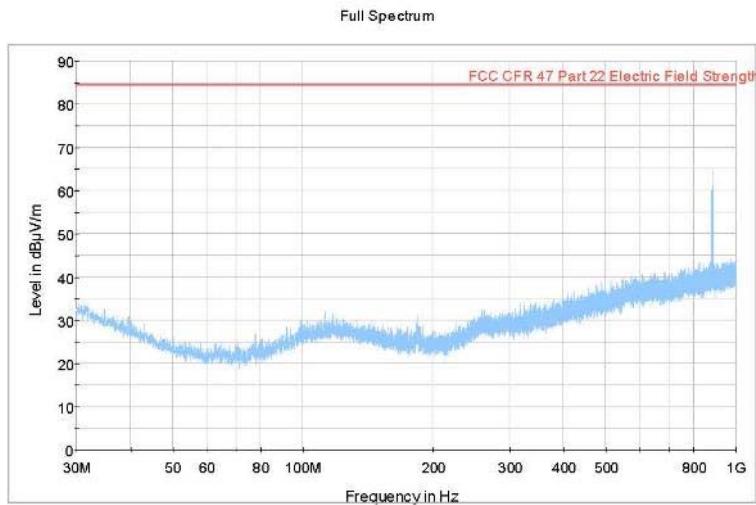


Figure 614 Radiated Emission 30 MHz – 1 GHz (881.5 MHz) (5MHz Channel BW)

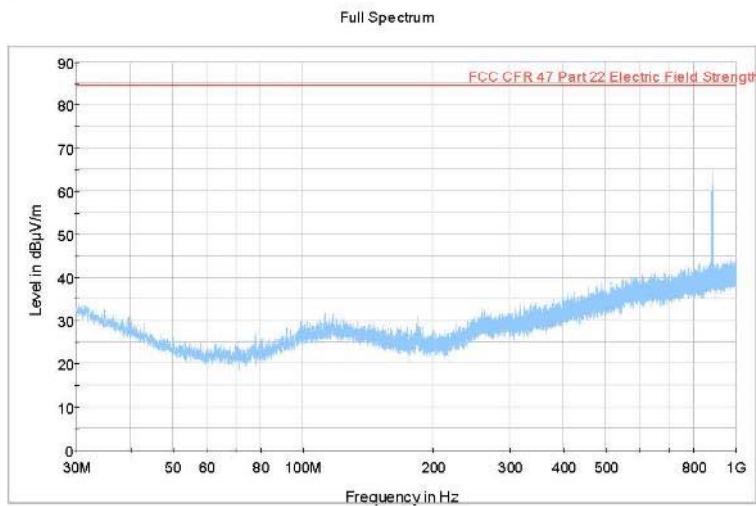


Figure 615 Radiated Emission 30 MHz – 1 GHz (891.5 MHz) (5MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

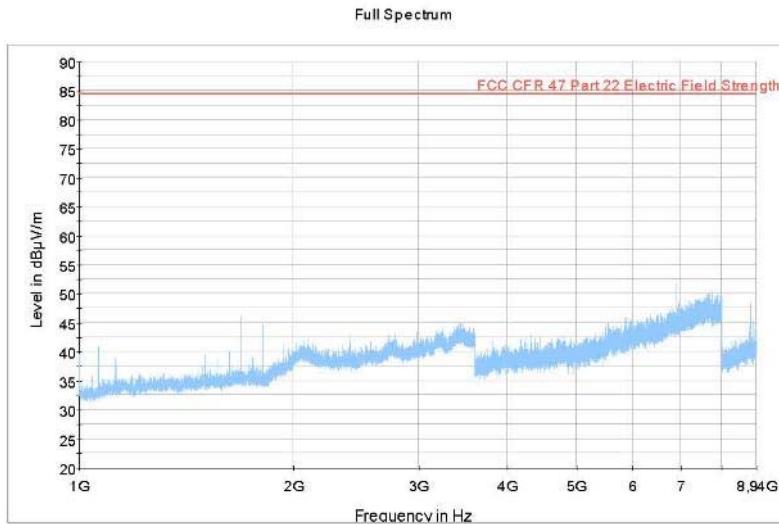


Figure 616 Radiated Emission 1 GHz – 8.94 GHz (871.5 MHz) (5MHz Channel BW)

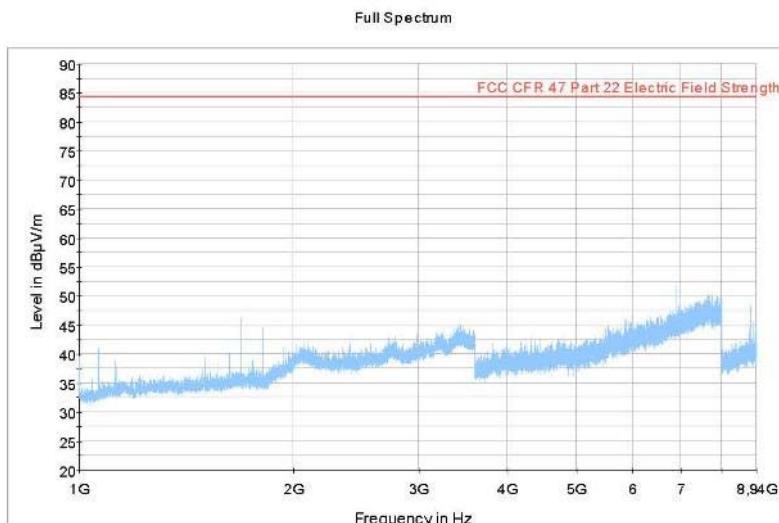


Figure 617 Radiated Emission 1 GHz – 8.94 GHz (881.5 MHz) (5MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

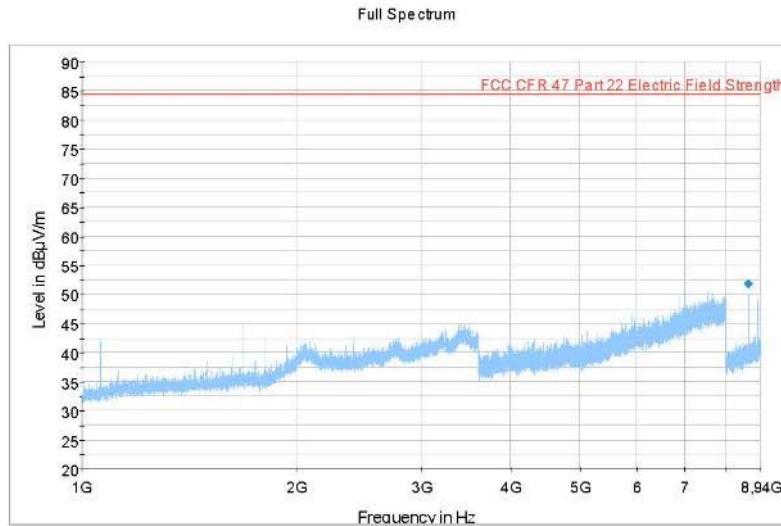


Figure 618 Radiated Emission 1 GHz – 8.94 GHz (891.5 MHz) (5MHz Channel BW)

Config B:

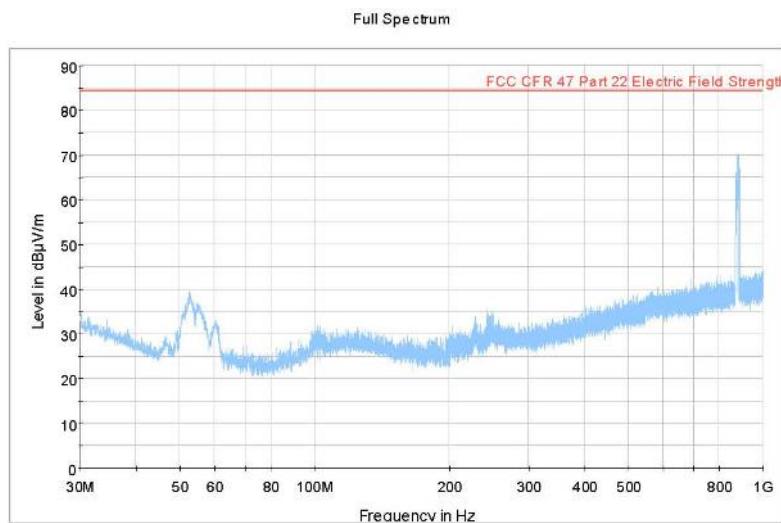


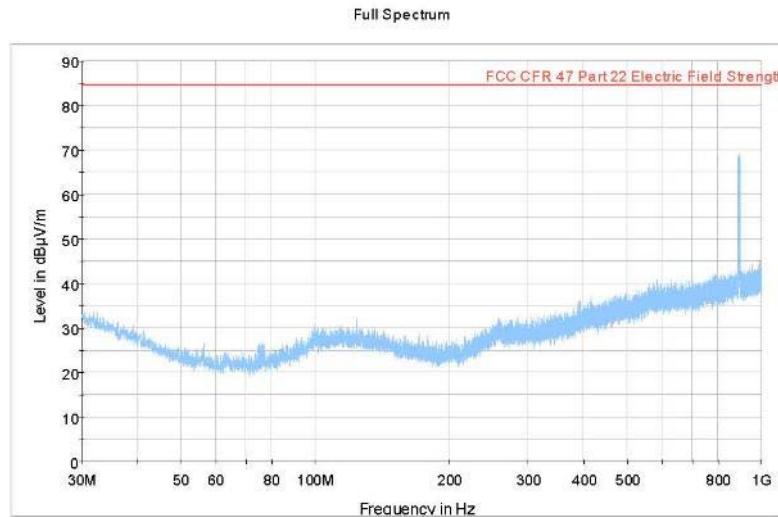
Figure 619 Radiated Emission 30 MHz – 1 GHz (871.5MHz / 876.5MHz) (5MHz+5MHz Channel BW)



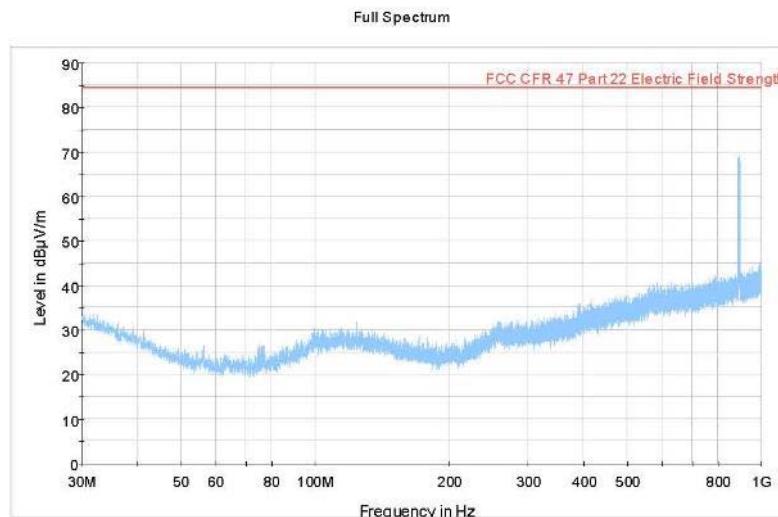
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FCC ID:
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Test Report No:
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**Figure 620 Radiated Emission 30 MHz – 1 GHz (879MHz / 884MHz)
(5MHz+5MHz Channel BW)**



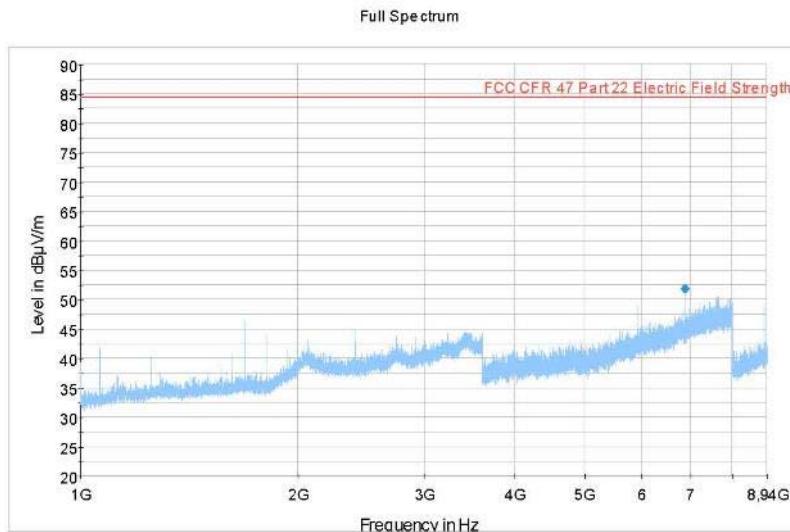
**Figure 621 Radiated Emission 30 MHz – 1 GHz (886.5MHz / 891.5MHz)
(5MHz+5MHz Channel BW)**



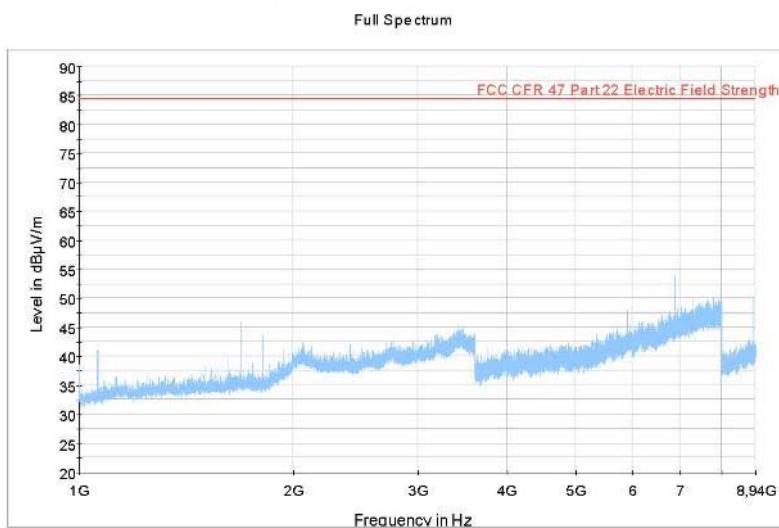
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FCC ID:
VBNAHCA-01

Test Report No:
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**Figure 622 Radiated Emission 1 GHz – 8.94 GHz (871.5MHz / 876.5MHz)
(5MHz+5MHz Channel BW)**



**Figure 623 Radiated Emission 1 GHz – 8.94 GHz (879MHz / 884MHz)
(5MHz+5MHz Channel BW)**



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

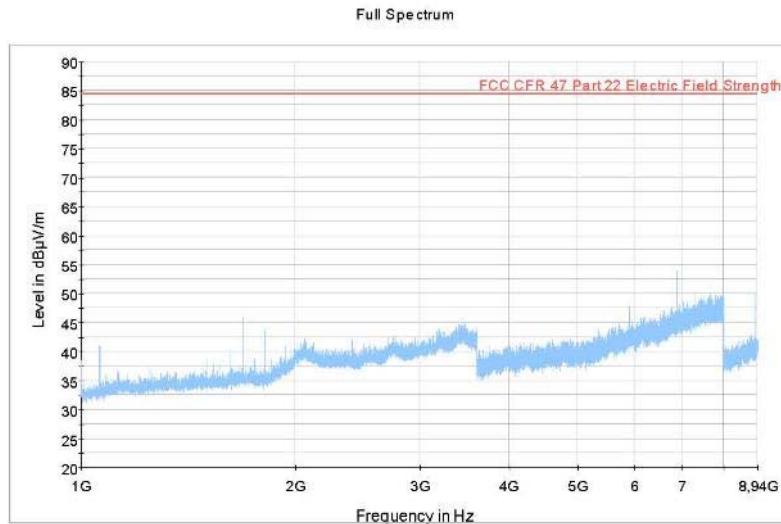


Figure 624 Radiated Emission 1 GHz – 8.94 GHz (886.5MHz / 891.5MHz) (5MHz+5MHz Channel BW)

Config C:

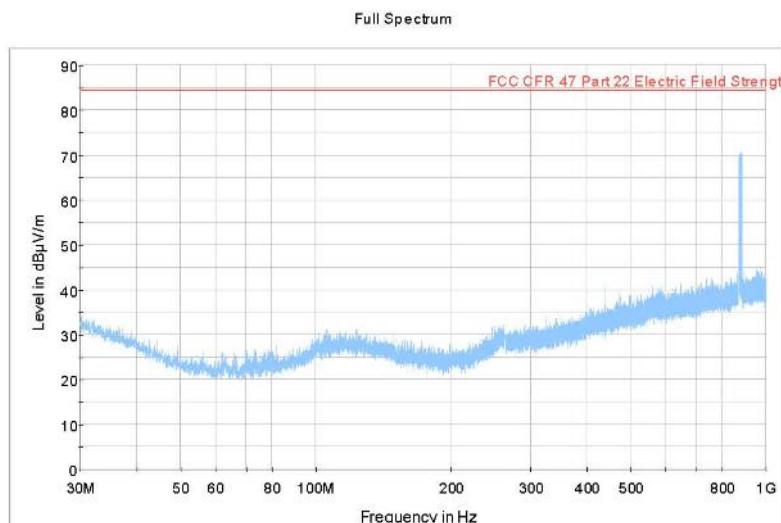


Figure 625 Radiated Emission 30 MHz – 1 GHz (871.5MHz / 876.5MHz / 881.5MHz) (5MHz+5MHz+5MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

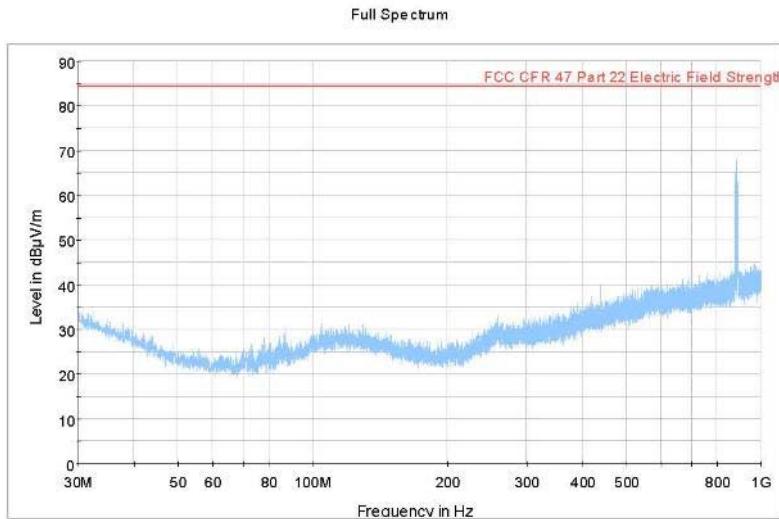


Figure 626 Radiated Emission 30 MHz – 1 GHz (876.5MHz / 881.5MHz / 886.5MHz) (5MHz+5MHz+5MHz Channel BW)

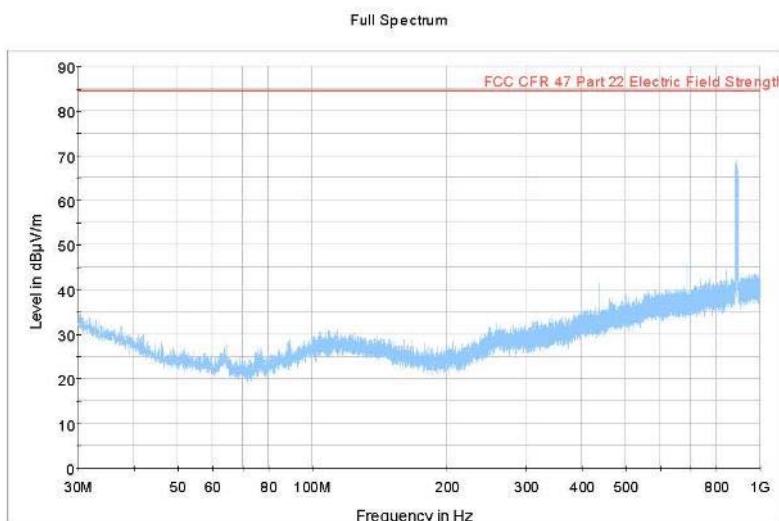


Figure 627 Radiated Emission 30 MHz – 1 GHz (881.5MHz / 886.5MHz / 891.5MHz) (5MHz+5MHz+5MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

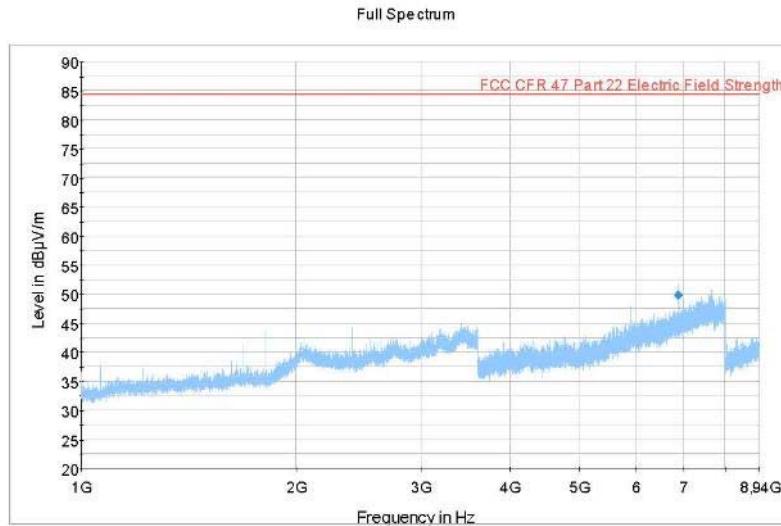


Figure 628 Radiated Emission 1 GHz – 8.94 GHz (871.5MHz / 876.5MHz / 881.5MHz) (5MHz+5MHz+5MHz Channel BW)

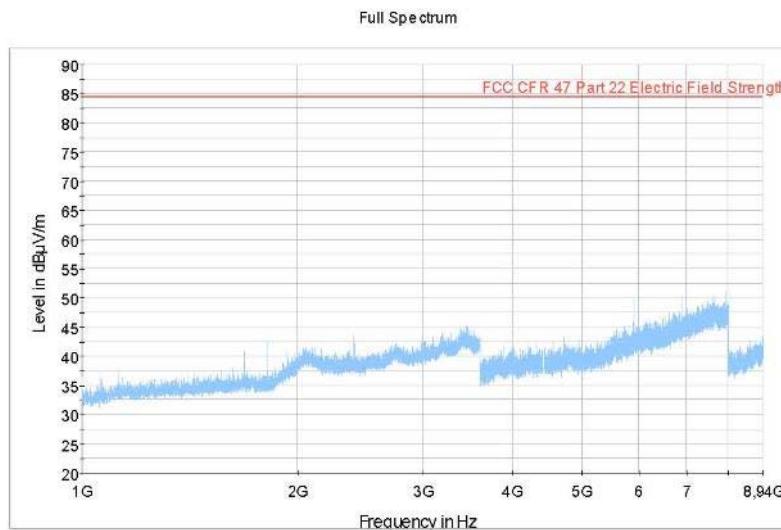


Figure 629 Radiated Emission 1 GHz – 8.94 GHz (876.5MHz / 881.5MHz / 886.5MHz) (5MHz+5MHz+5MHz Channel BW)



Product Service

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VBNAHCA-01

Test Report No:
D555647736

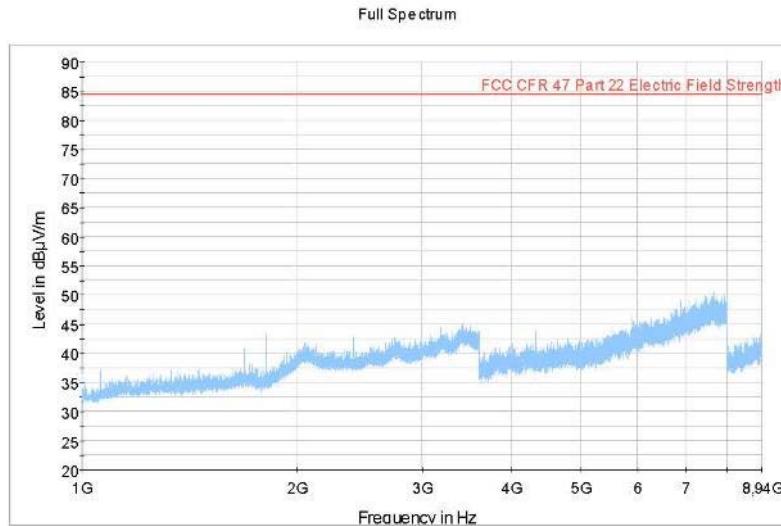


Figure 630 Radiated Emission 1 GHz – 8.94 GHz (881.5MHz / 886.5 MHz / 891.5 MHz) (5MHz+5MHz+5MHz Channel BW)

Config D:

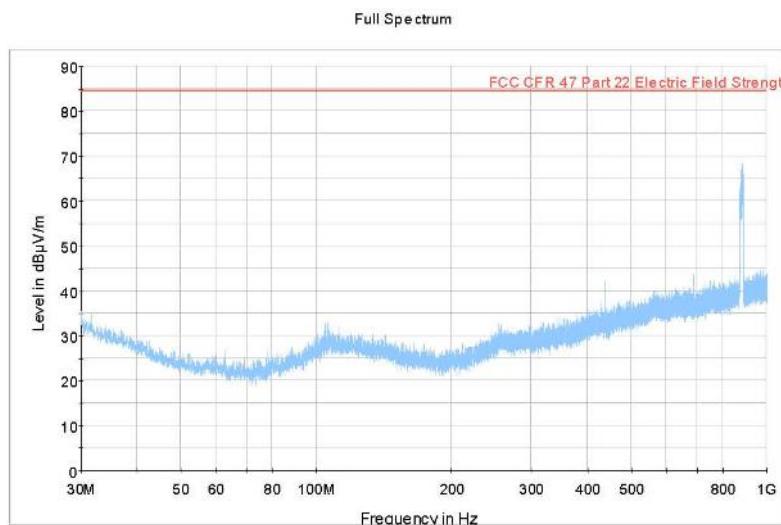


Figure 631 Radiated Emission 30 MHz – 1 GHz (874MHz) (10MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

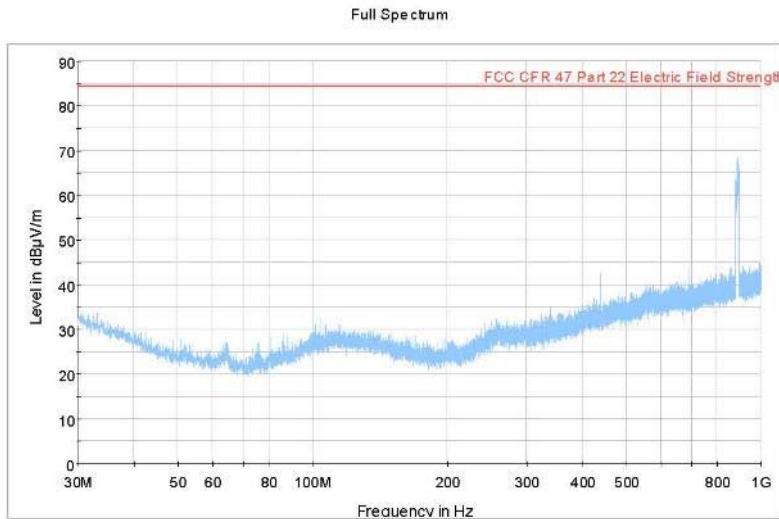


Figure 632 Radiated Emission 30 MHz – 1 GHz (881.5MHz) (10MHz Channel BW)

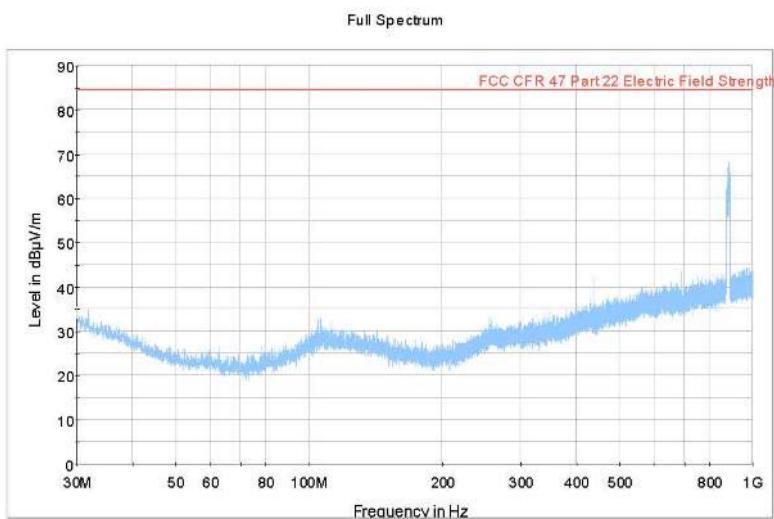


Figure 633 Radiated Emission 30 MHz – 1 GHz (889MHz) (10MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

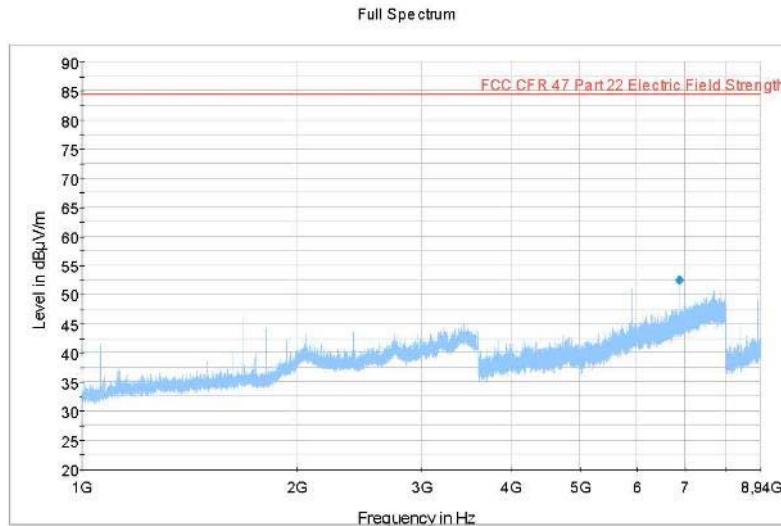


Figure 634 Radiated Emission 1 GHz – 8.94 GHz (874MHz) (10MHz Channel BW)

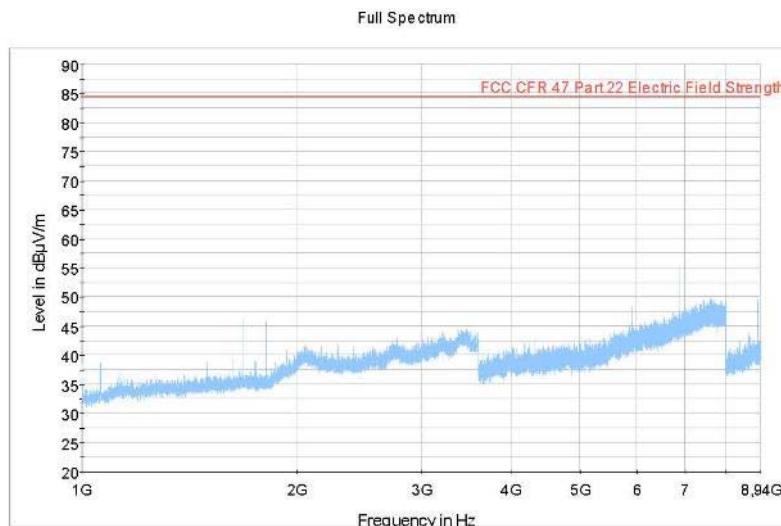


Figure 635 Radiated Emission 1 GHz – 8.94 GHz (881.5MHz) (10MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

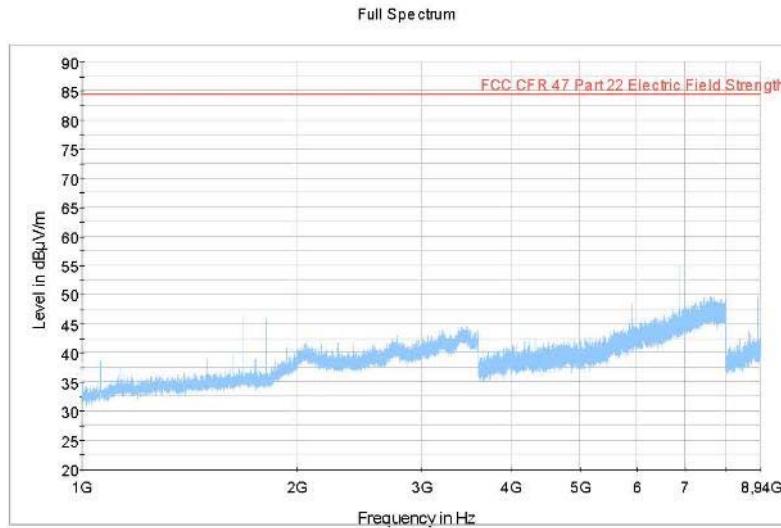


Figure 636 Radiated Emission 1 GHz – 8.94 GHz (889MHz) (10MHz Channel BW)

Config E:

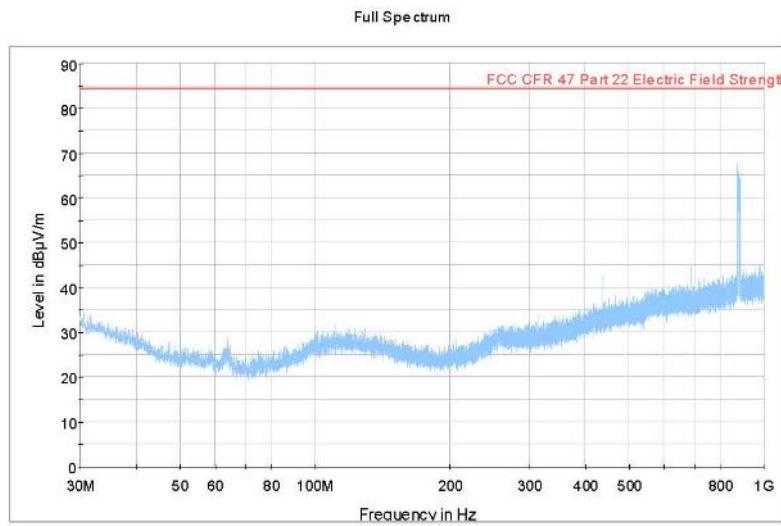


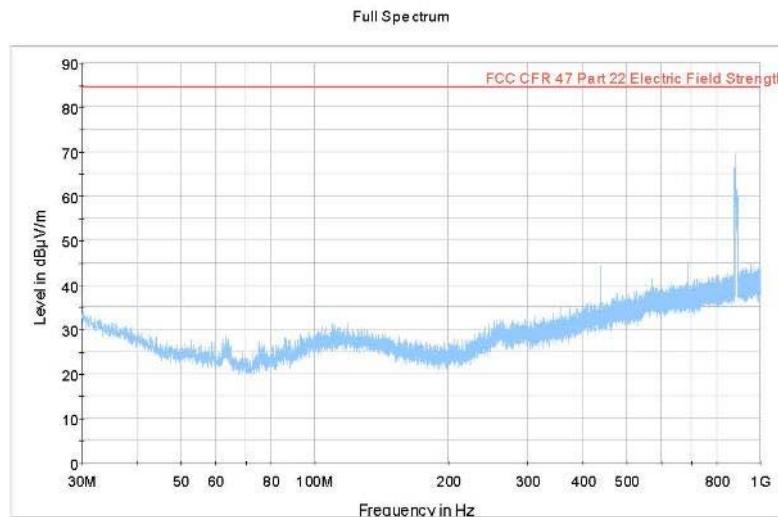
Figure 637 Radiated Emission 30 MHz – 1 GHz (874MHz / 884MHz) (10MHz+10MHz Channel BW)



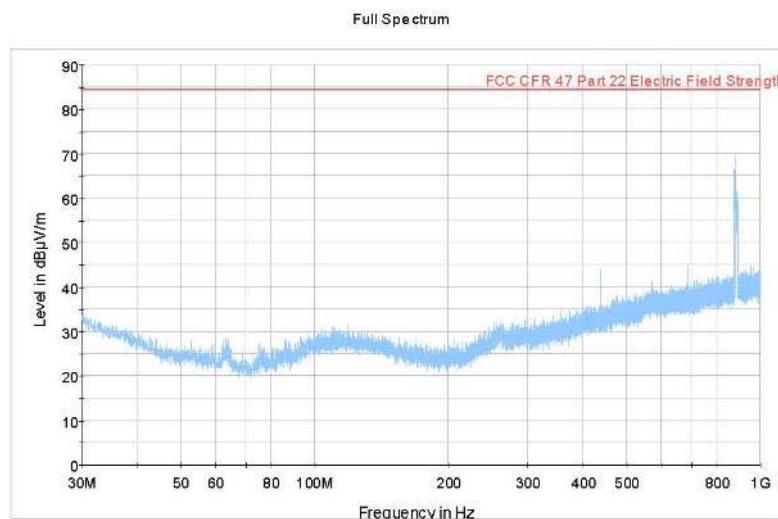
Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



**Figure 638 Radiated Emission 30 MHz – 1 GHz (876.5MHz / 886.5MHz)
(10MHz+10MHz Channel BW)**



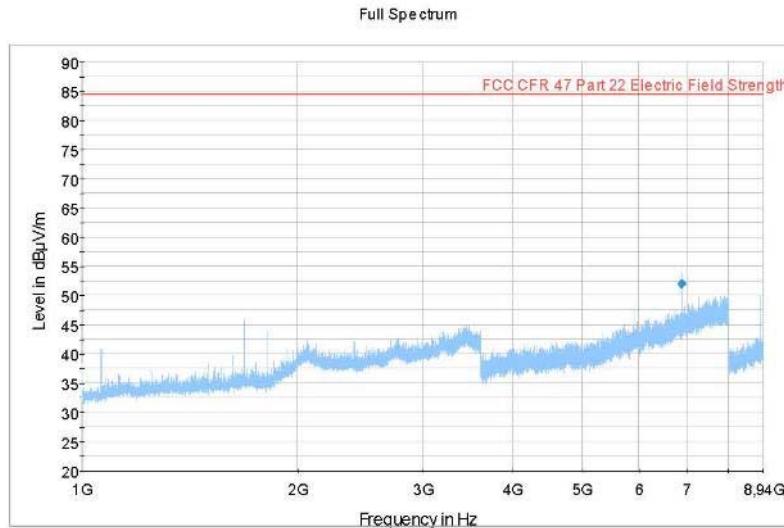
**Figure 639 Radiated Emission 30 MHz – 1 GHz (879MHz / 889MHz)
(10MHz+10MHz Channel BW)**



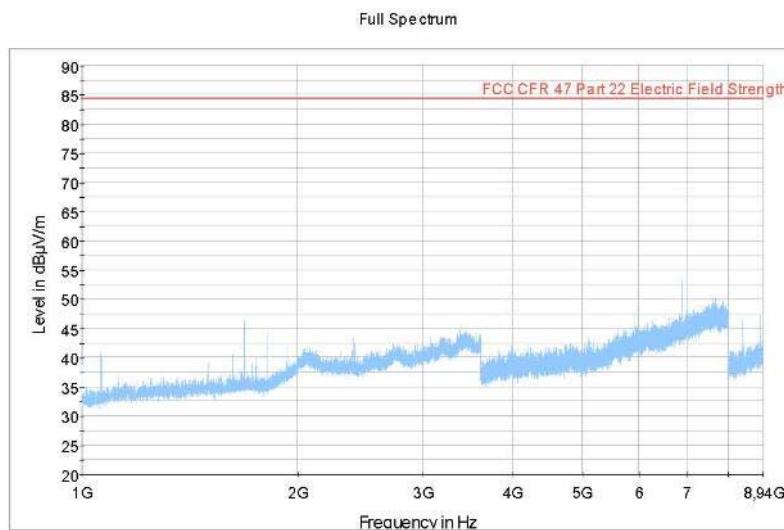
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FCC ID:
VBNAHCA-01

Test Report No:
D555647736



**Figure 640 Radiated Emission 1 GHz – 8.94 GHz (874MHz / 884MHz)
(10MHz+10 MHz Channel BW)**



**Figure 641 Radiated Emission 1 GHz – 8.94 GHz (876.5MHz / 886.5MHz)
(10MHz+10MHz Channel BW)**



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

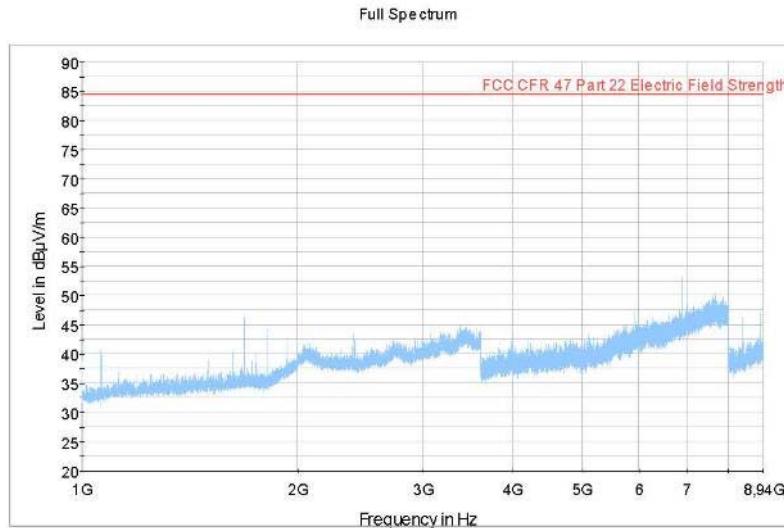


Figure 642 Radiated Emission 1 GHz – 8.94 GHz (879/889MHz) (10MHz+10MHz Channel BW)

Config F:

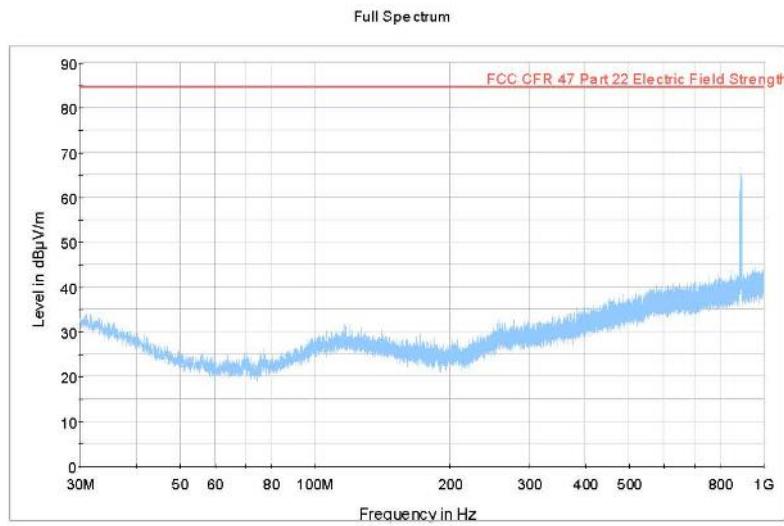


Figure 643 Radiated Emission 30 MHz – 1 GHz (871.5MHz) (5MHz Channel BW)



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Test Report No:
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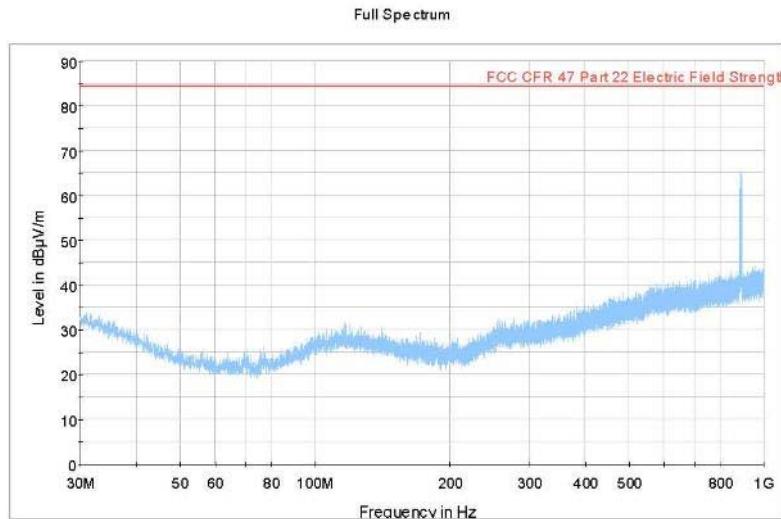


Figure 644 Radiated Emission 30 MHz – 1 GHz (881.5MHz) (5MHz Channel BW)

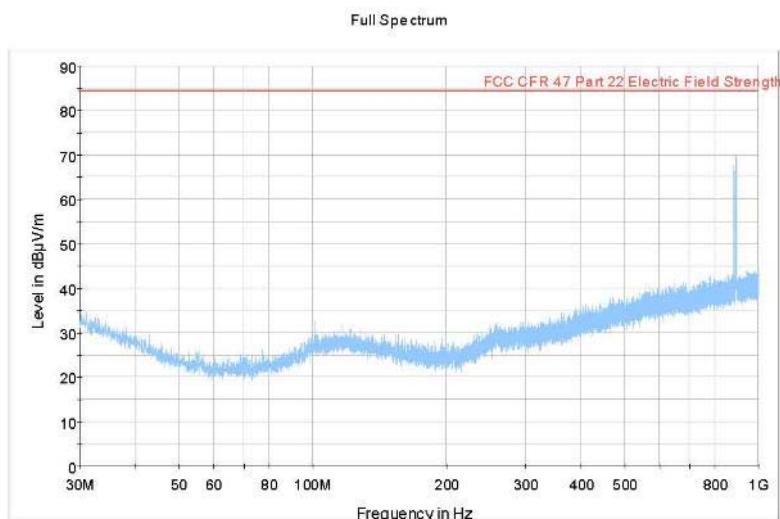


Figure 645 Radiated Emission 30 MHz – 1 GHz (891.5MHz) (5MHz Channel BW)



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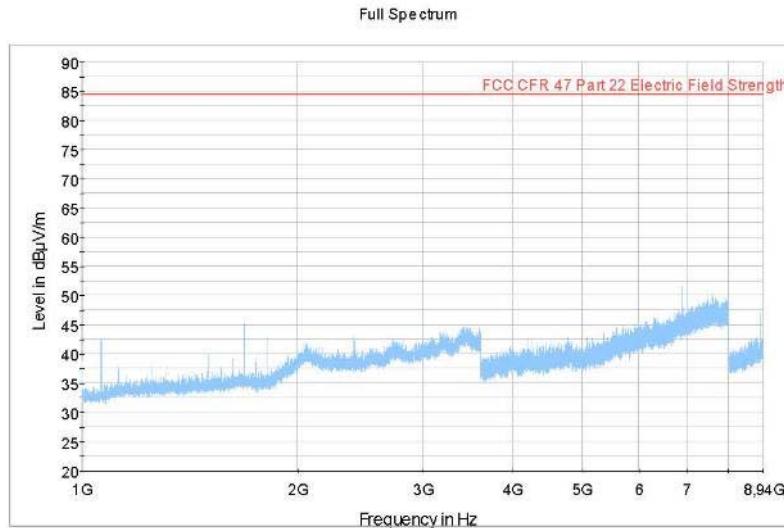


Figure 646 Radiated Emission 1 GHz – 8.94 GHz (871.5MHz) (5MHz Channel BW)

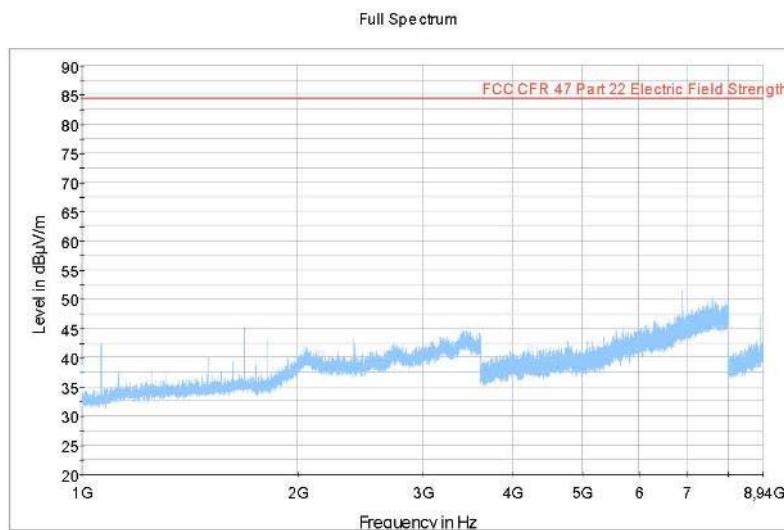


Figure 647 Radiated Emission 1 GHz – 8.94 GHz (881.5MHz) (5MHz Channel BW)