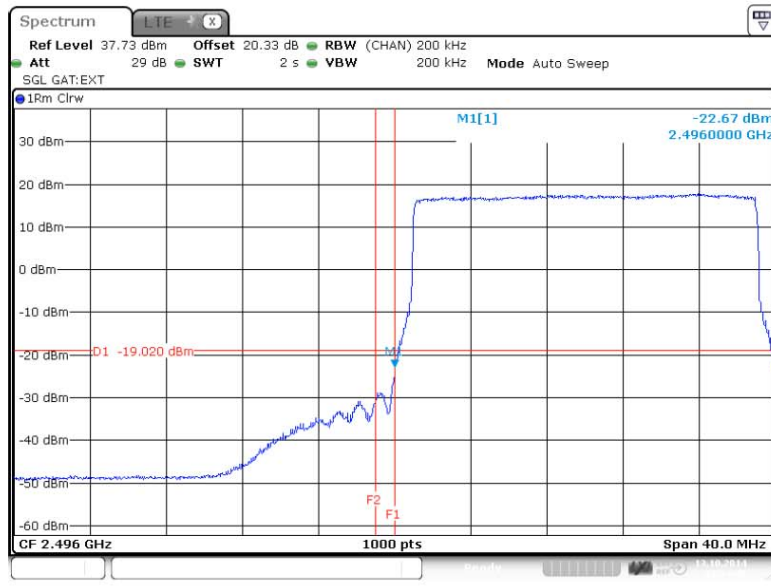




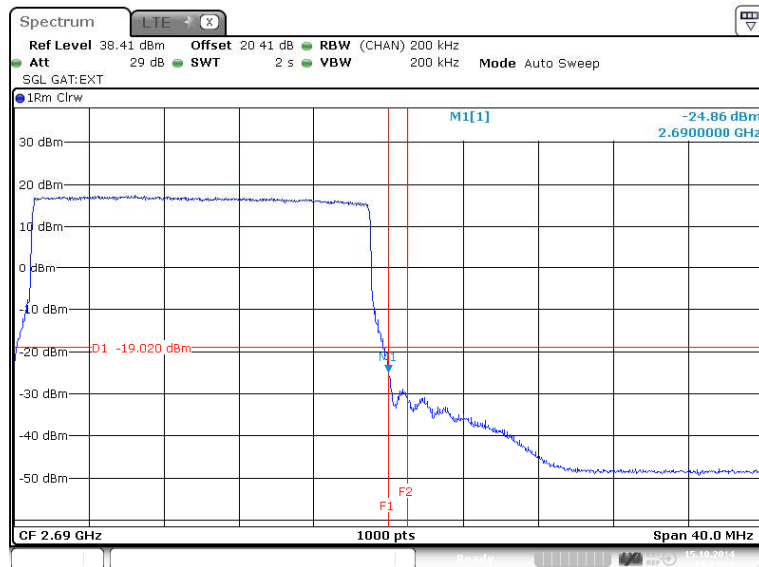
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 13.OCT.2014 13:34:47

Figure 211 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)



Date: 15.OCT.2014 14:13:30

Figure 212 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)



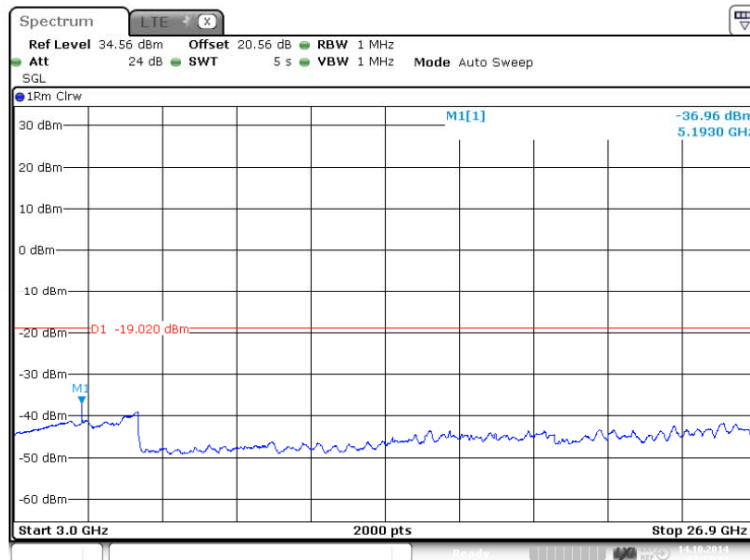
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 13:10:55

Figure 213 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



Date: 14.OCT.2014 13:12:15

Figure 214 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

Config E ANT2/Main:

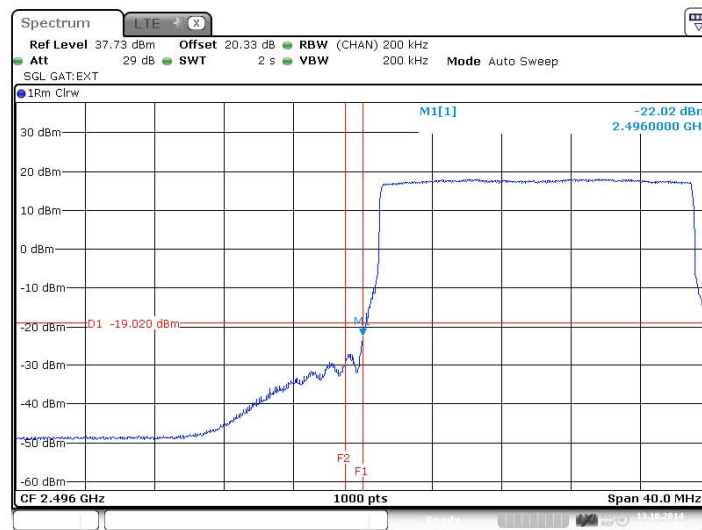


Figure 215 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz) (20MHz Channel BW)

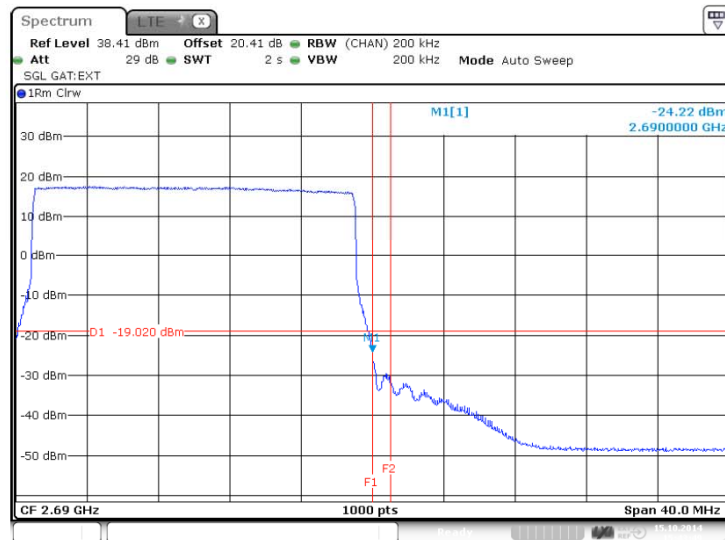


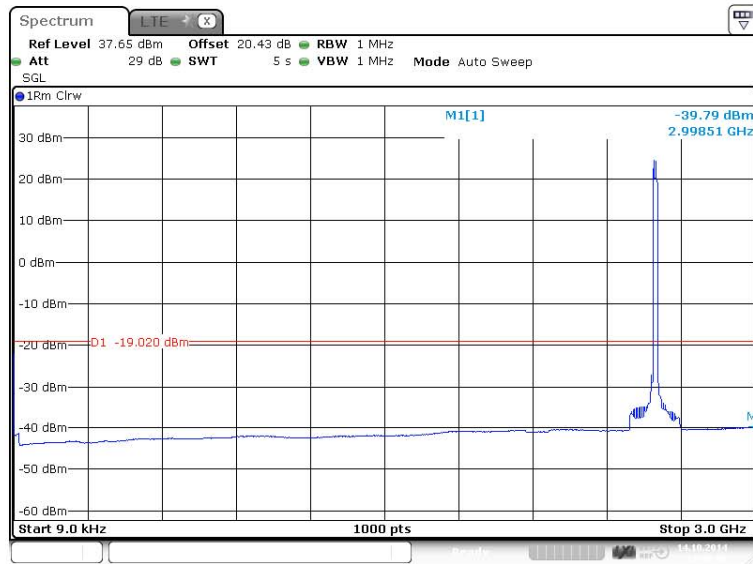
Figure 216 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)



Product Service

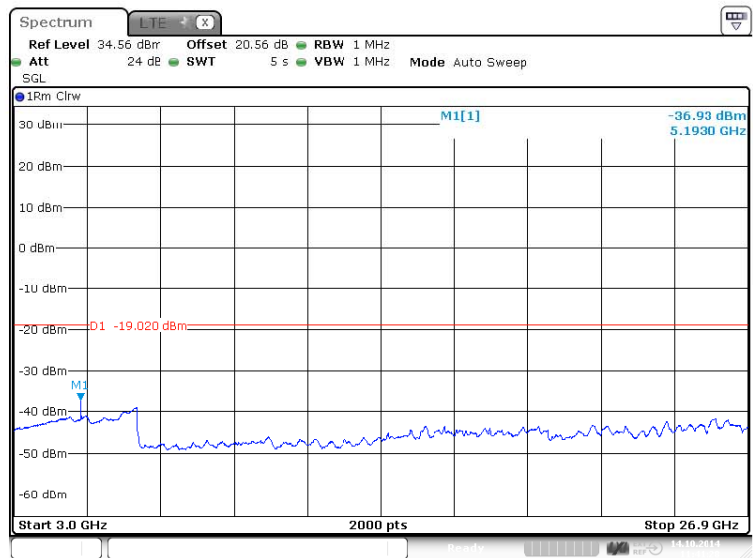
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 11:40:05

Figure 217 Spurious Emissions (9kHz – 3GHz) - QPSK (2593.0 MHz) (20MHz Channel BW)



Date: 14.OCT.2014 11:41:29

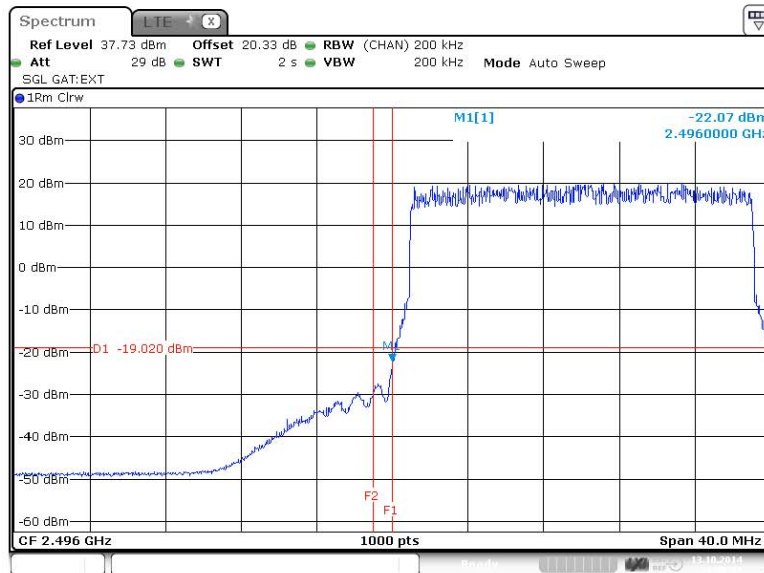
Figure 218 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



Product Service

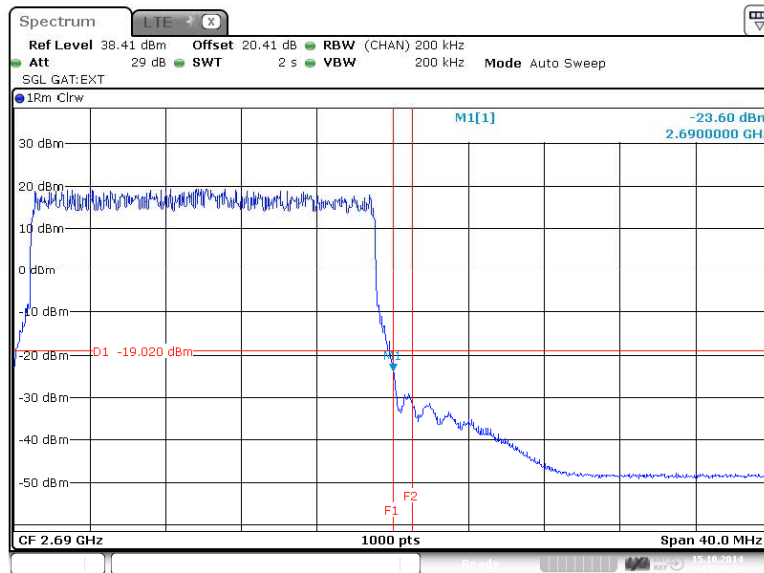
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 13.OCT.2014 14:58:56

Figure 219 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz) (20MHz Channel BW)



Date: 15.OCT.2014 15:27:08

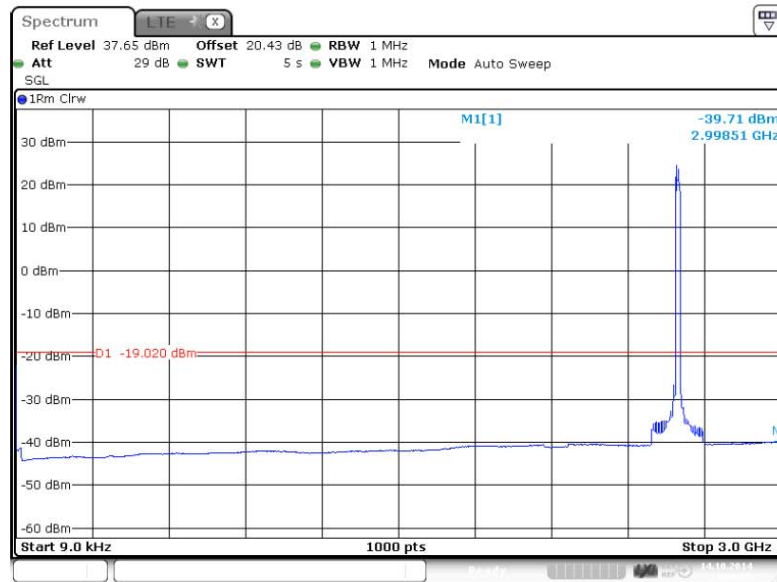
Figure 220 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)



Product Service

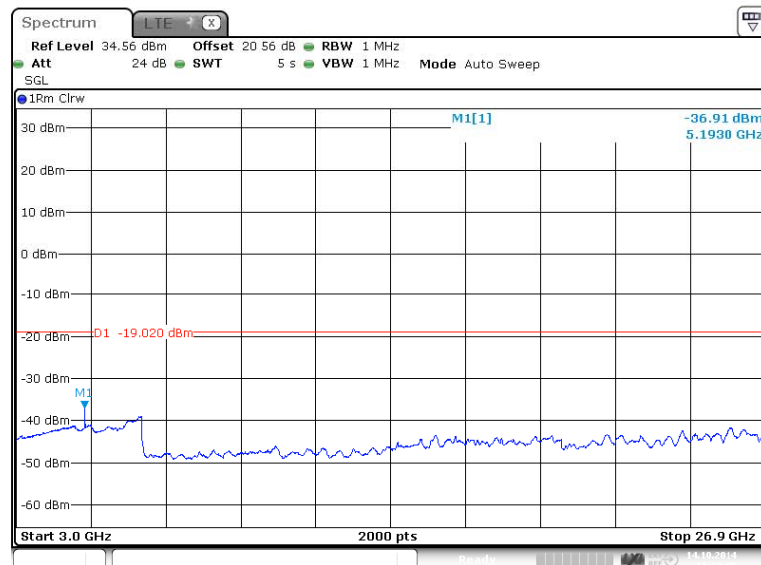
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 11:09:05

Figure 221 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



Date: 14.OCT.2014 11:12:05

Figure 222 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

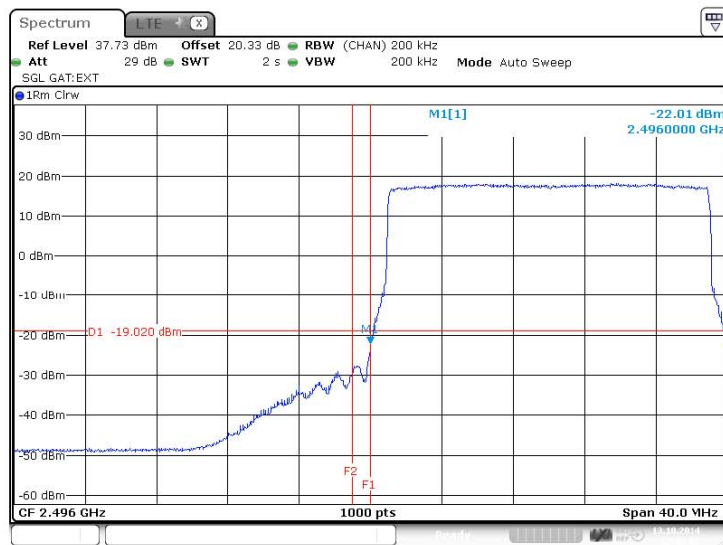


Figure 223 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)



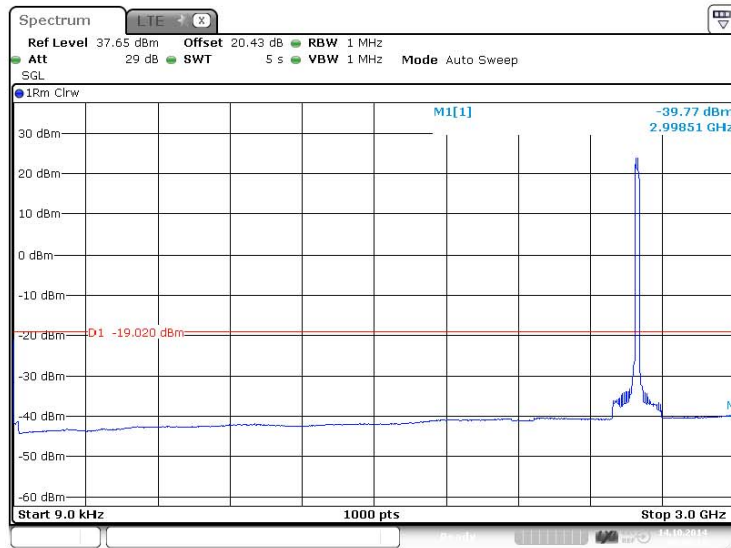
Figure 224 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)



Product Service

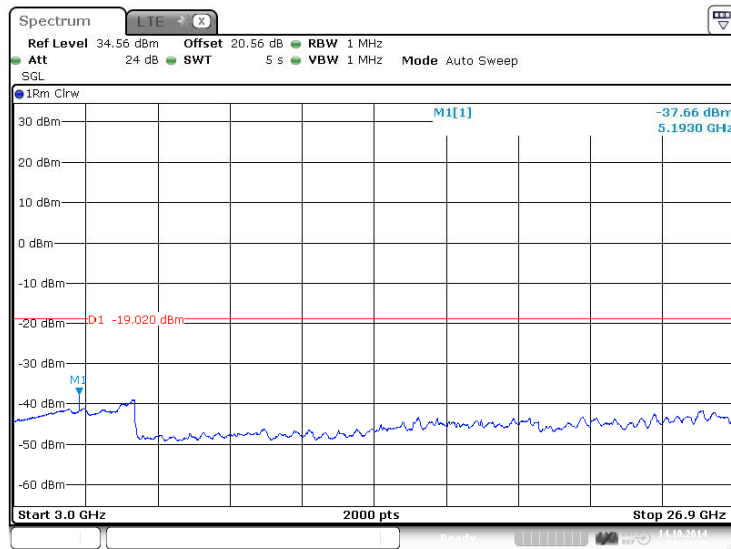
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 09:48:10

Figure 225 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



Date: 14.OCT.2014 09:45:45

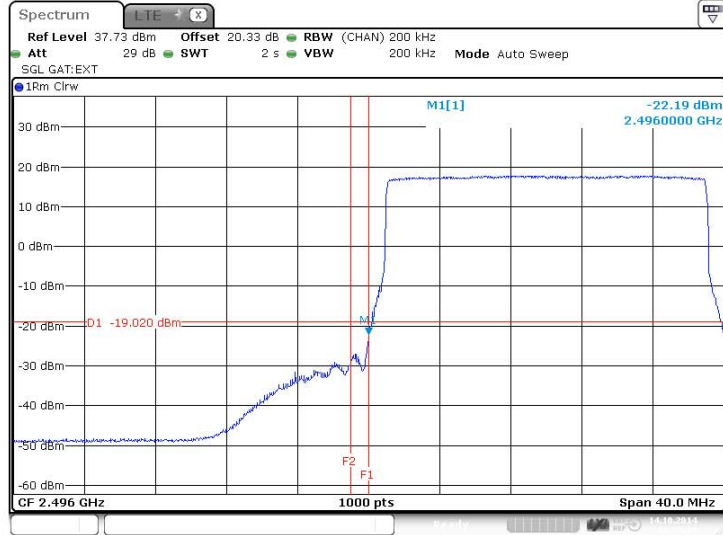
Figure 226 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

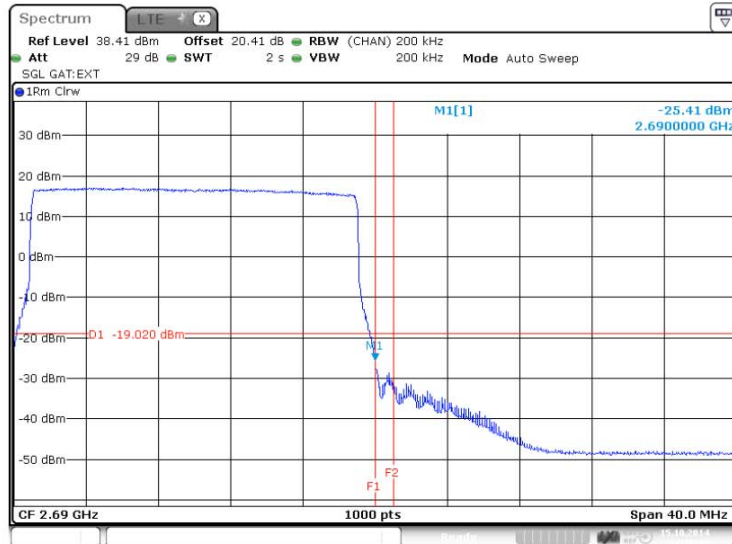
Test Report No:
D522886124

Config E ANT2/Div:



Date: 14.OCT.2014 07:05:32

Figure 227 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz) (20MHz Channel BW)



Date: 15.OCT.2014 14:33:52

Figure 228 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)



Product Service

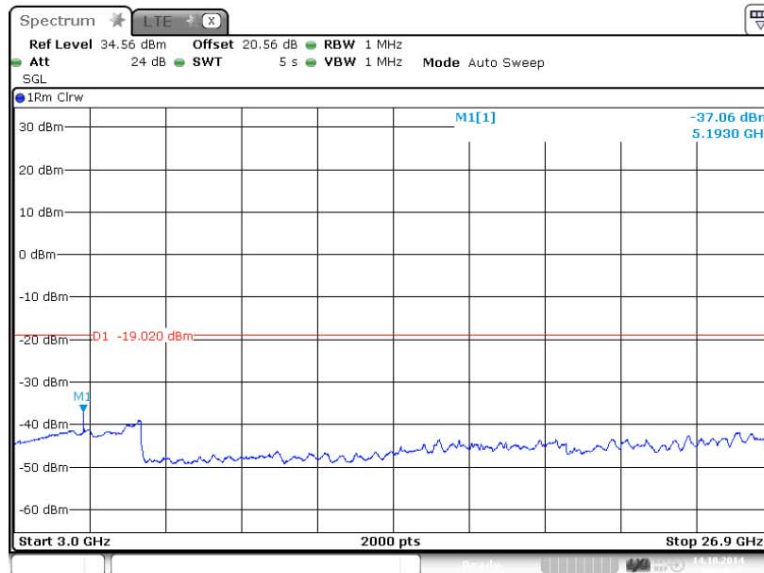
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 08:23:11

Figure 229 Spurious Emissions (9kHz – 3GHz) - QPSK (2593.0 MHz) (20MHz Channel BW)



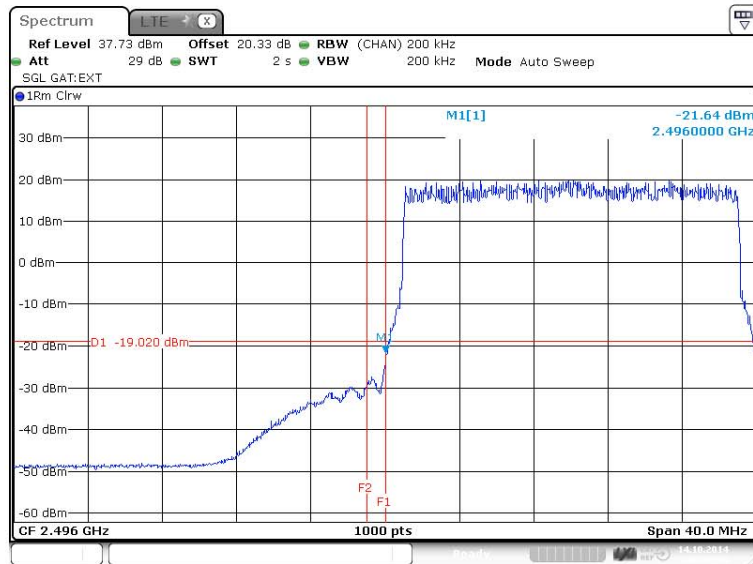
Date: 14.OCT.2014 08:30:42

Figure 230 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



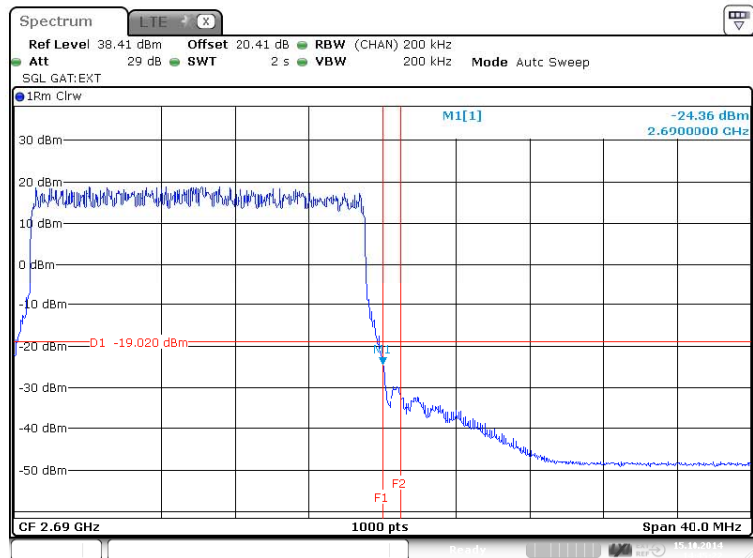
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 06:52:56

Figure 231 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz) (20MHz Channel BW)



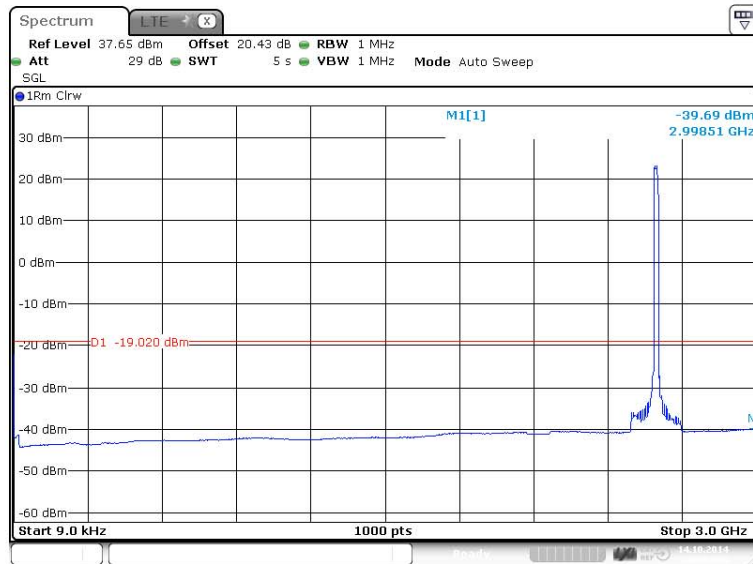
Date: 15.OCT.2014 14:45:22

Figure 232 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)



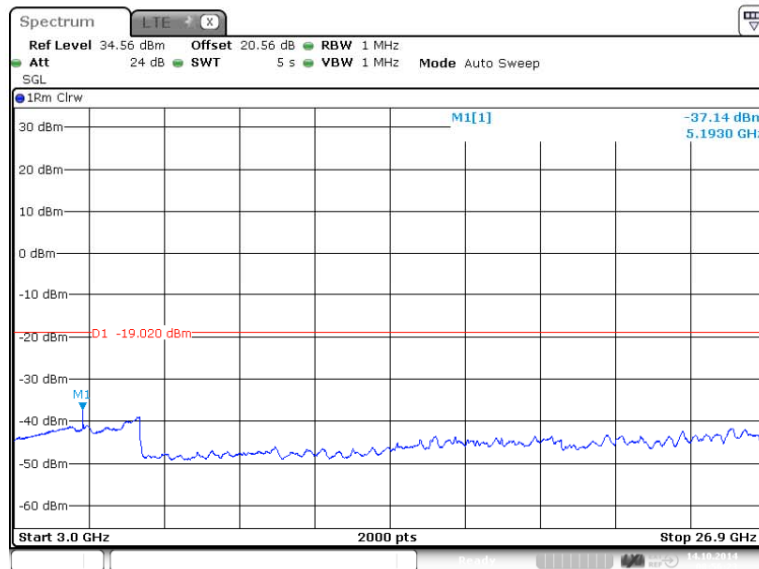
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 08:54:06

Figure 233 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



Date: 14.OCT.2014 08:56:23

Figure 234 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

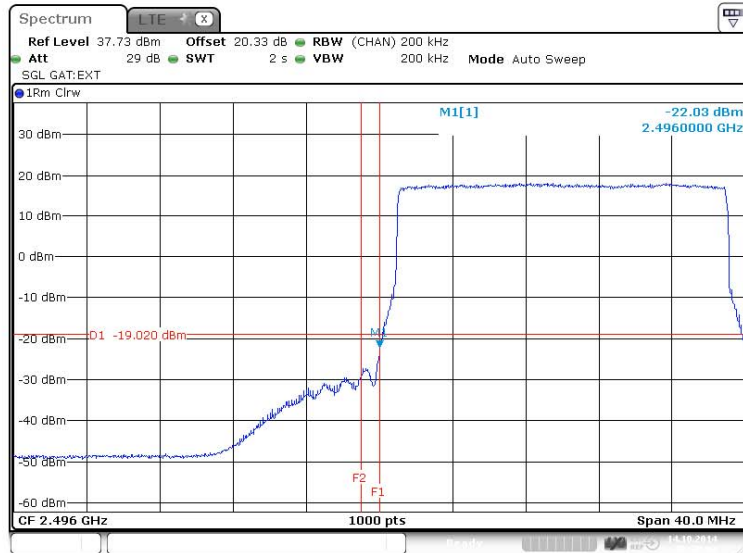


Figure 235 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)

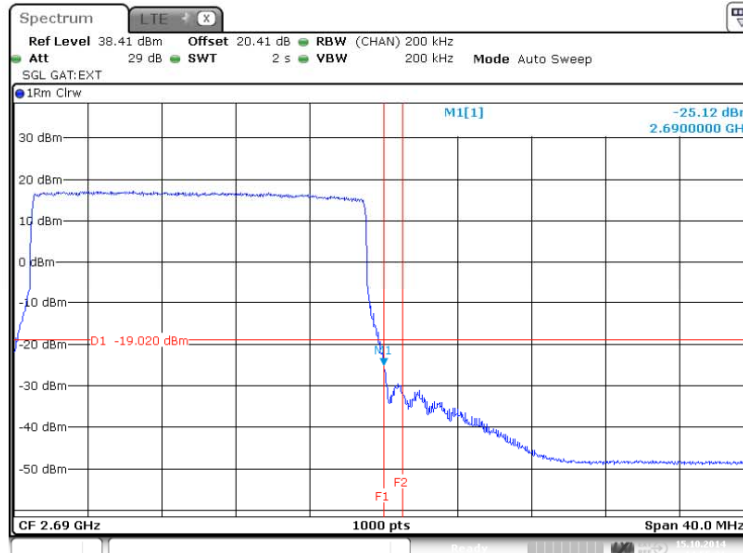
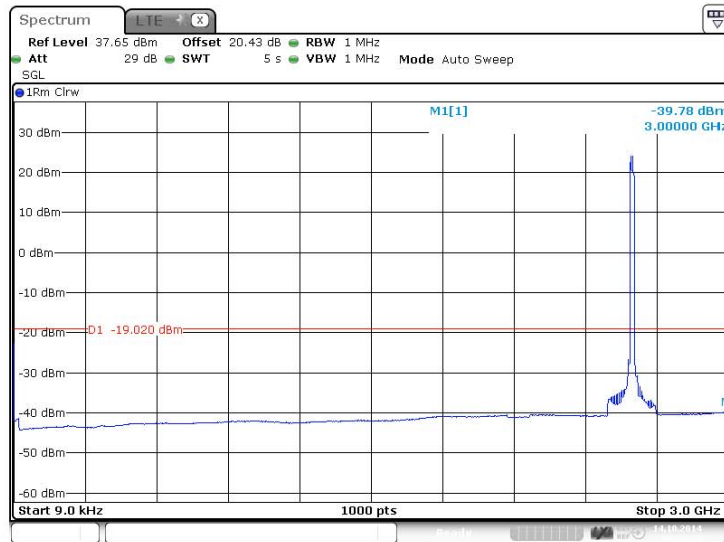


Figure 236 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)



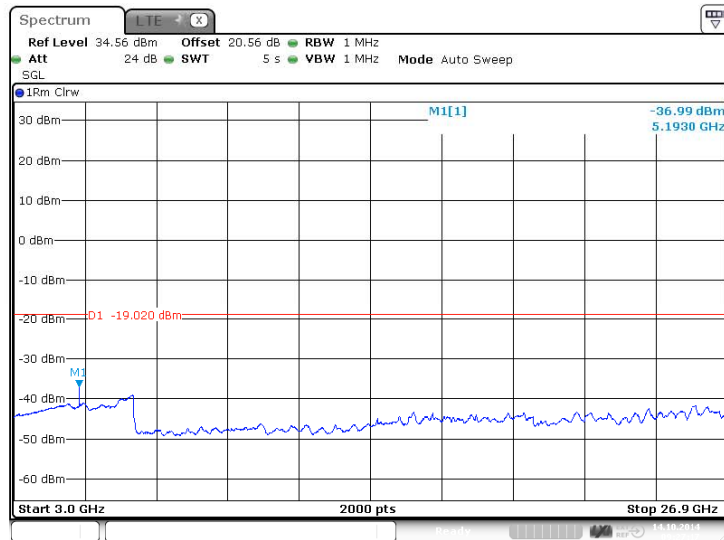
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 14.OCT.2014 09:25:47

Figure 237 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



Date: 14.OCT.2014 09:27:18

Figure 238 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)

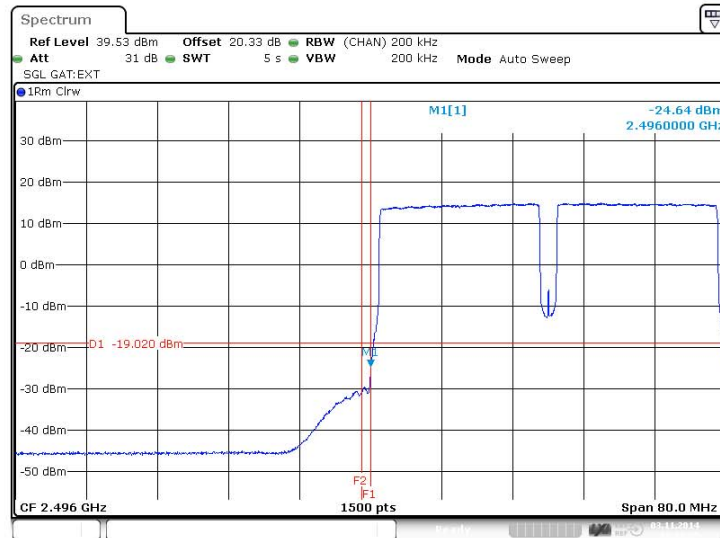


Product Service

FCC ID:
VBNFWHD-01

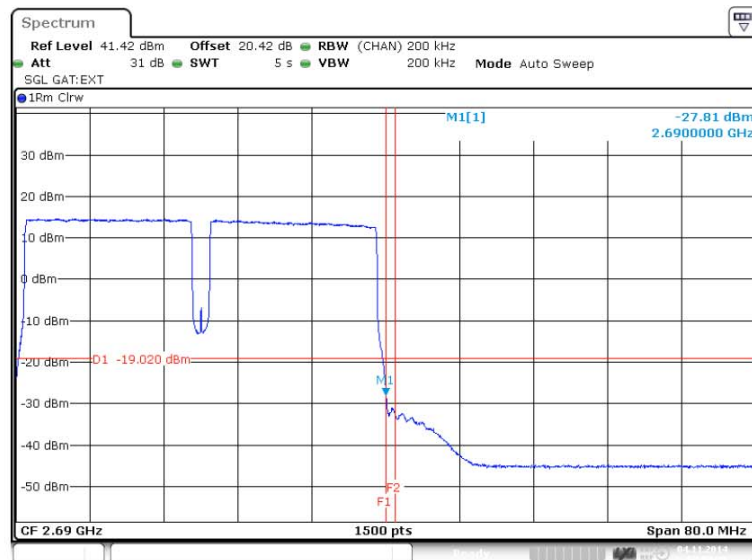
Test Report No:
D522886124

Config F ANT2/Main:



Date: 3.NOV.2014 13:32:55

Figure 239 Spurious Emissions (Lower Band Edge) – QPSK (2506.0/2526.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 08:59:18

Figure 240 Spurious Emissions (Upper Band Edge) – QPSK (2660.0/2680.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

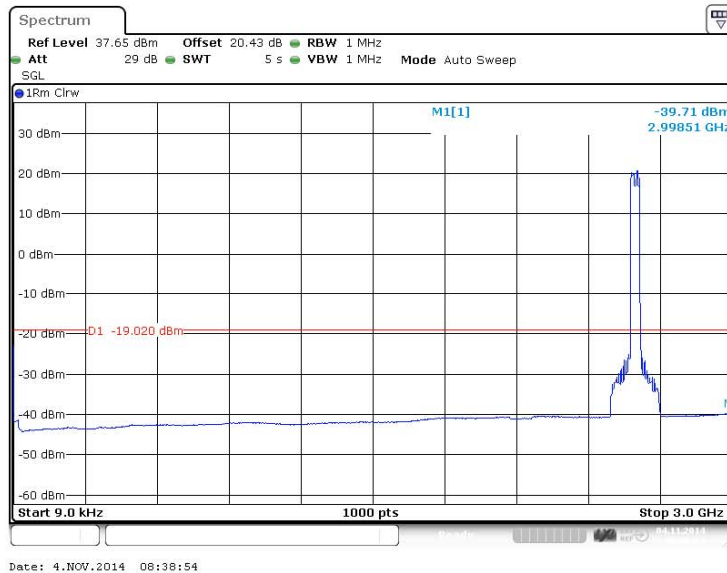


Figure 241 Spurious Emissions (9kHz – 3GHz) - QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)

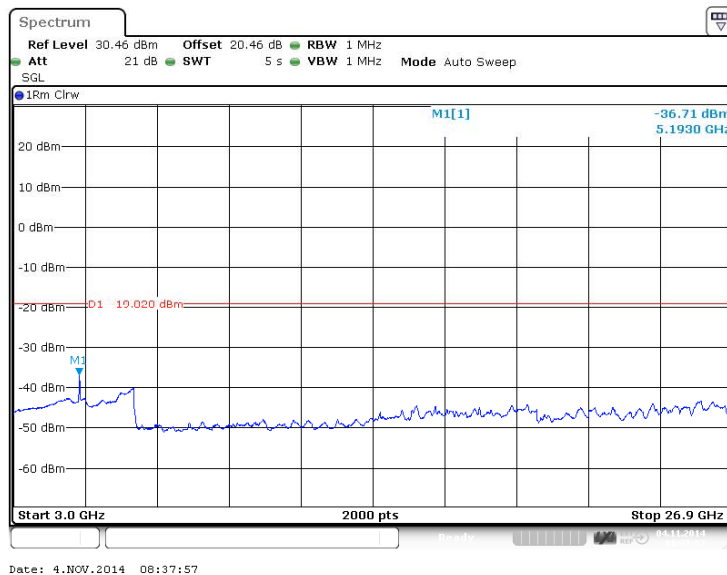
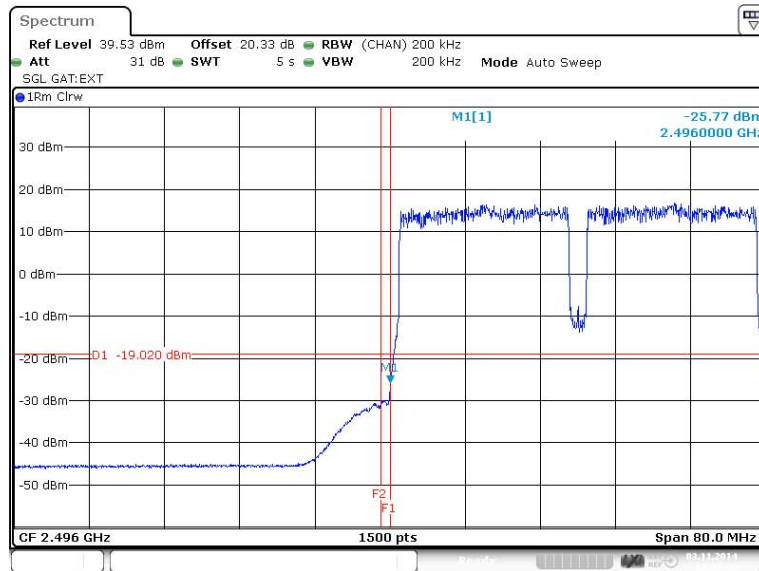


Figure 242 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)



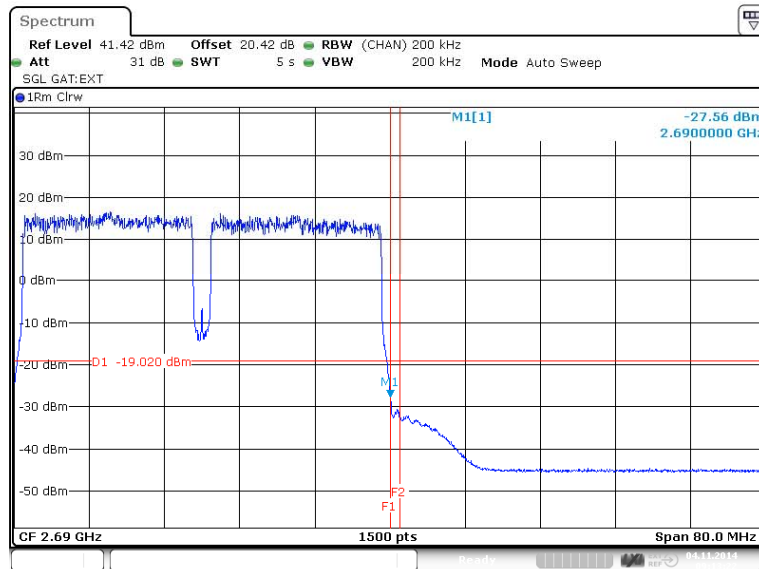
FCC ID:
VBNFWHD-01

Test Report No:
D5228861 24



Date: 3.NOV.2014 13:55:04

Figure 243 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



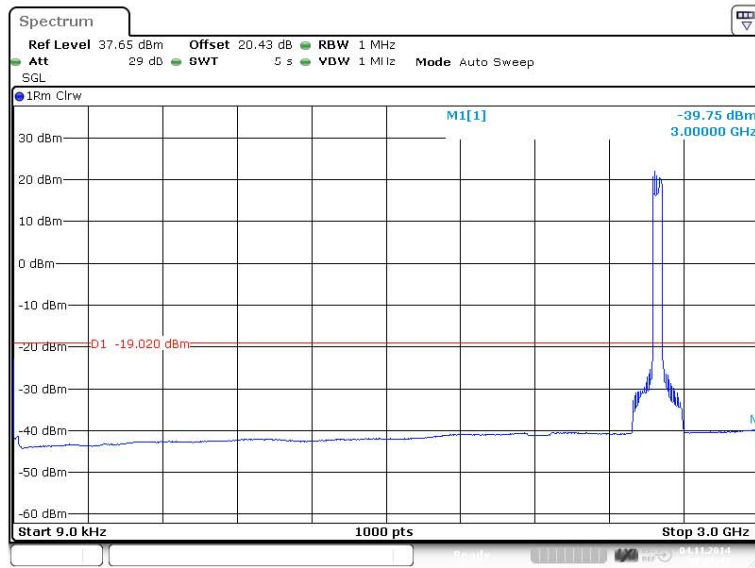
Date: 4.NOV.2014 09:13:22

Figure 244 Spurious Emissions (Upper Band Edge) – 16QAM (2660.0/2680.0 MHz) (20MHz Channel BW)



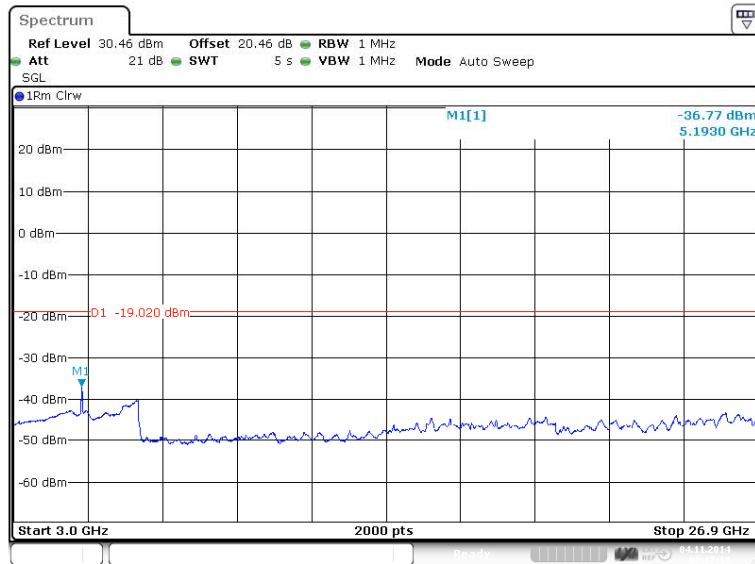
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 4.NOV.2014 08:27:43

Figure 245 Spurious Emissions (9kHz – 3GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 08:17:18

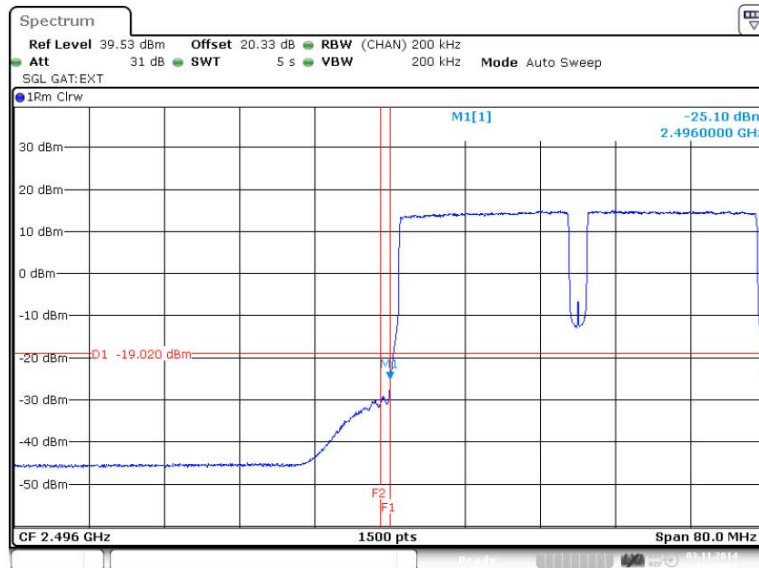
Figure 246 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Product Service

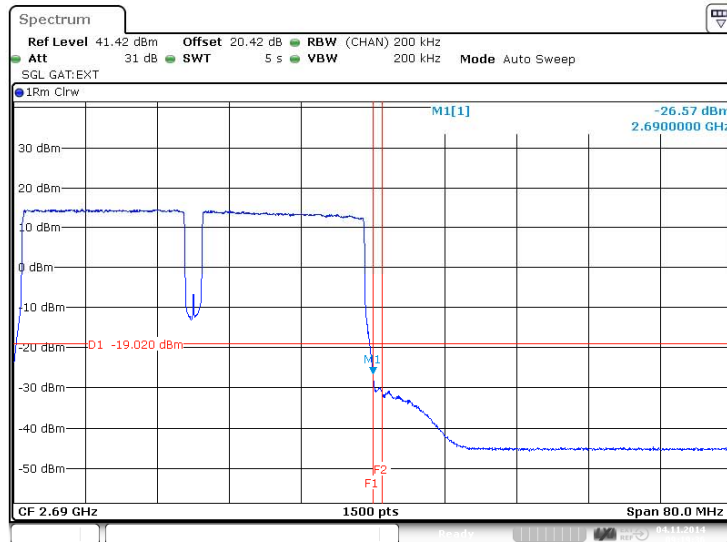
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 3.NOV.2014 14:10:06

Figure 247 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



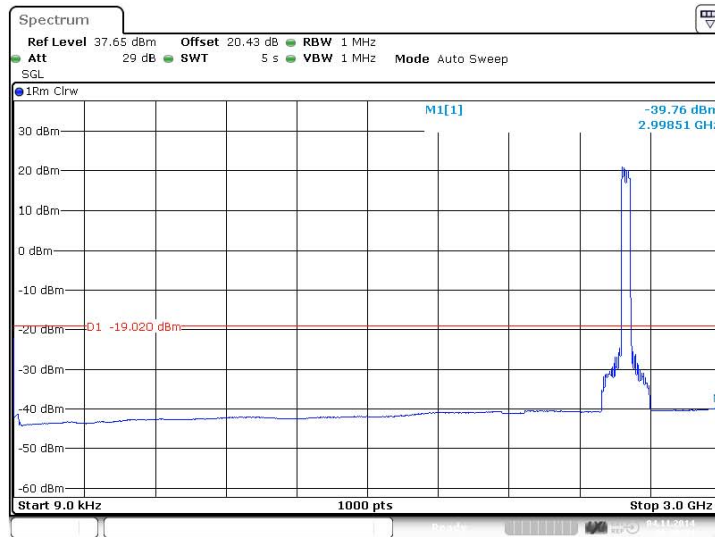
Date: 4.NOV.2014 09:19:36

Figure 248 Spurious Emissions (Upper Band Edge) – 64QAM (2660.0/2680.0 MHz) (20MHz Channel BW)



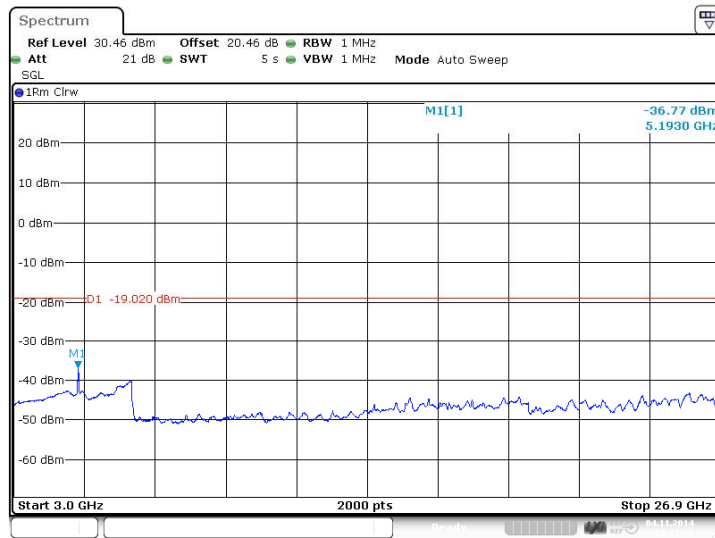
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 4.NOV.2014 08:18:33

Figure 249 Spurious Emissions (9kHz – 3GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 08:17:18

Figure 250 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

Config F ANT2/Div:

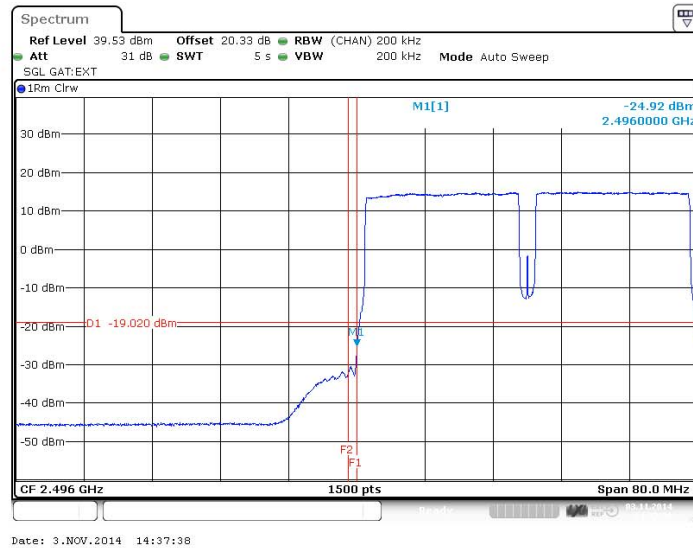


Figure 251 Spurious Emissions (Lower Band Edge) – QPSK (2506.0/2526.0 MHz) (20MHz Channel BW)

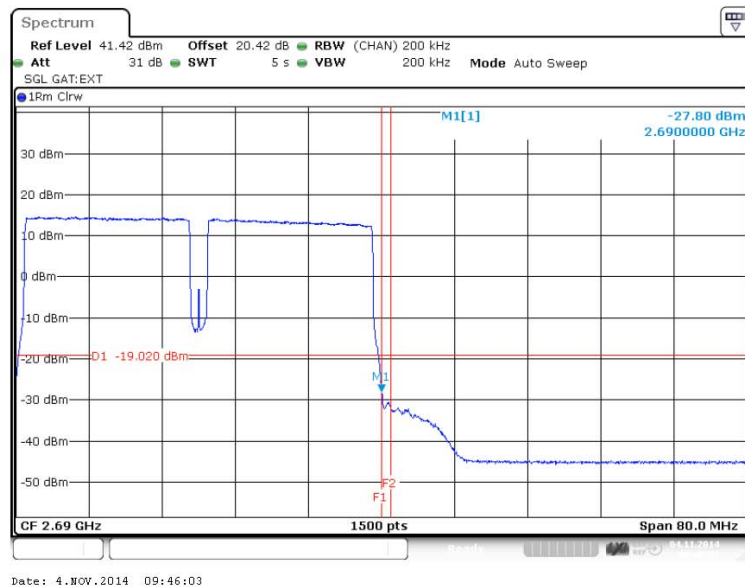
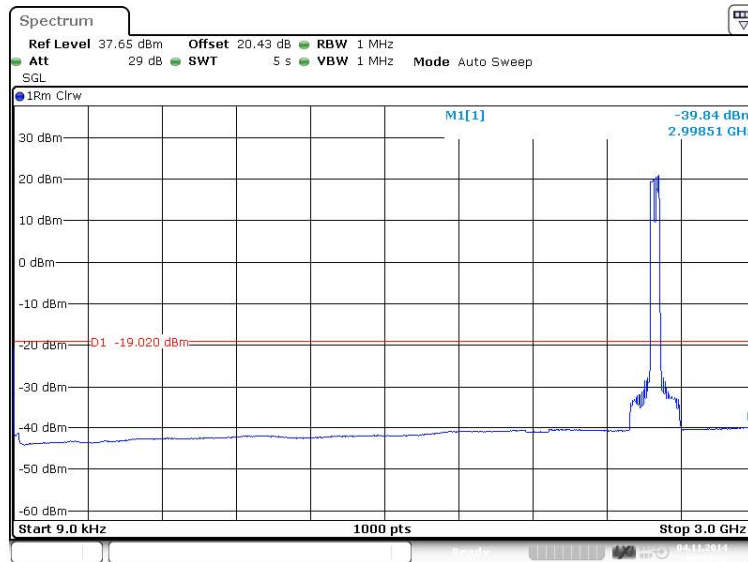


Figure 252 Spurious Emissions (Upper Band Edge) – QPSK (2660.0/2680.0 MHz) (20MHz Channel BW)



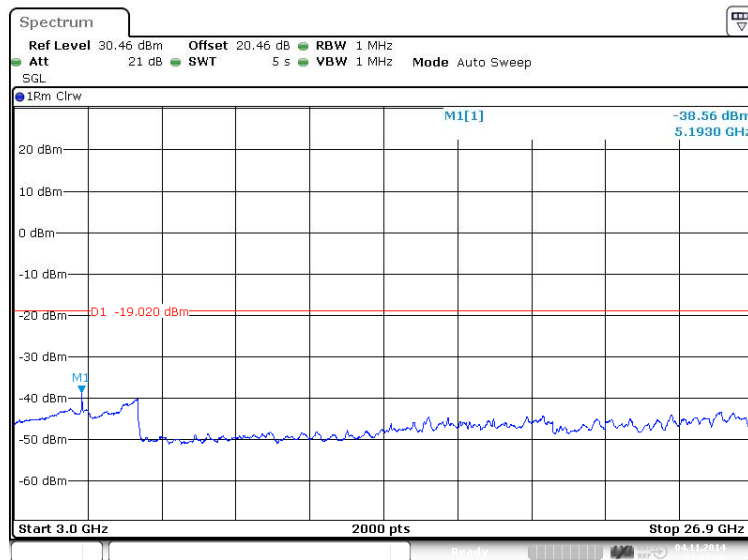
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 4.NOV.2014 07:10:12

Figure 253 Spurious Emissions (9kHz – 3GHz) - QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 07:09:06

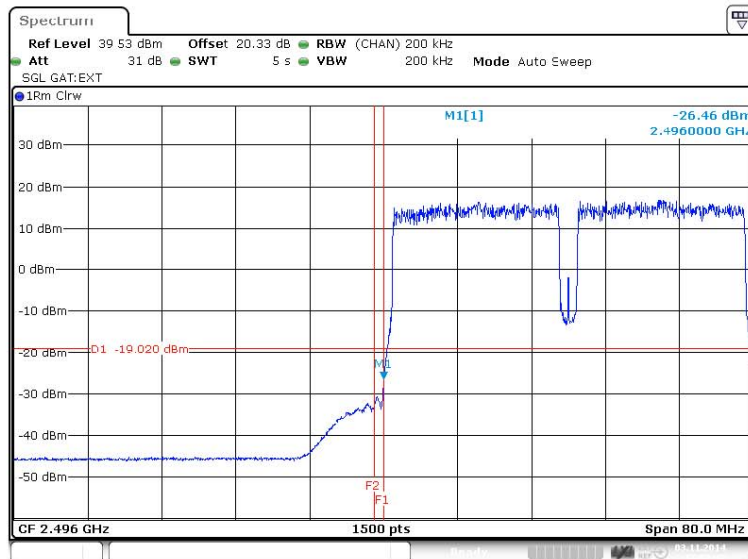
Figure 254 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)



Product Service

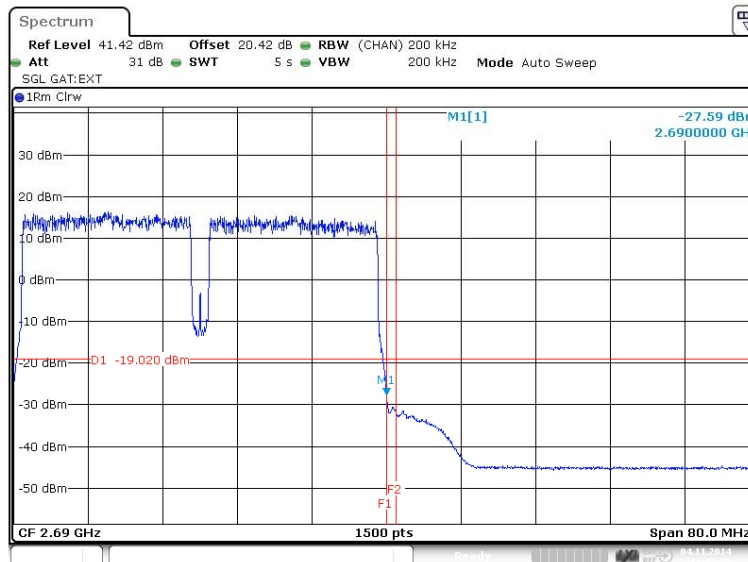
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 3.NOV.2014 14:52:36

Figure 255 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 11:04:00

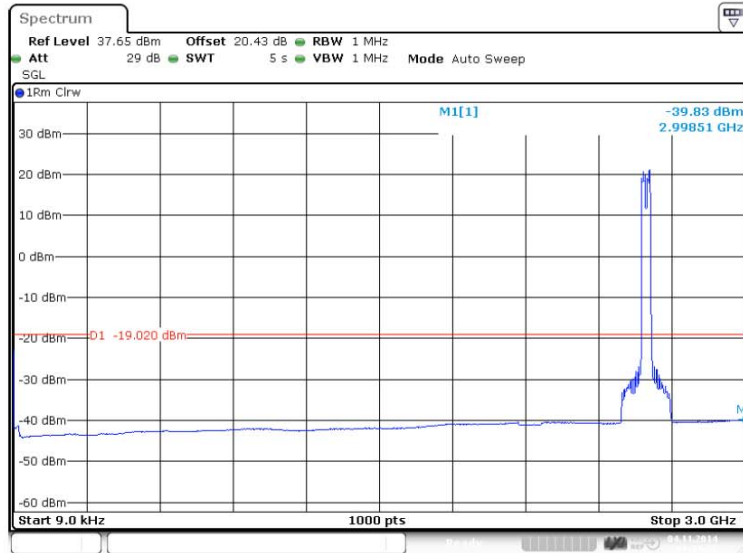
Figure 256 Spurious Emissions (Upper Band Edge) – 16QAM (2660.0/2680.0 MHz) (20MHz Channel BW)



Product Service

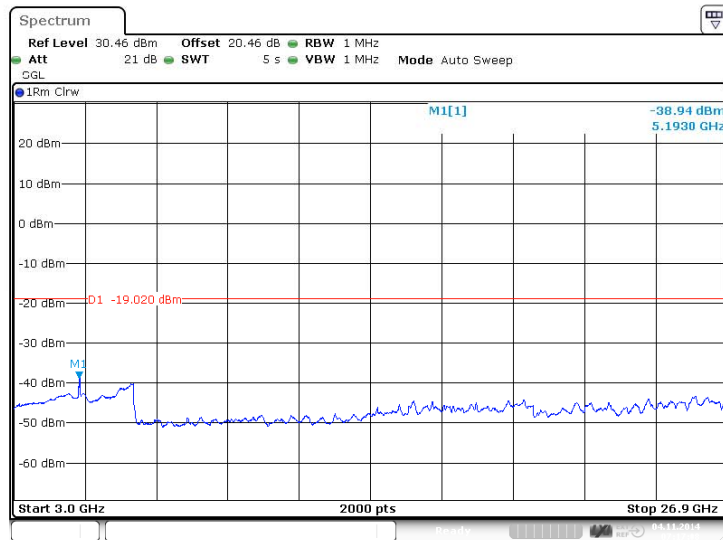
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 4.NOV.2014 07:15:55

Figure 257 Spurious Emissions (9kHz – 3GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 07:17:08

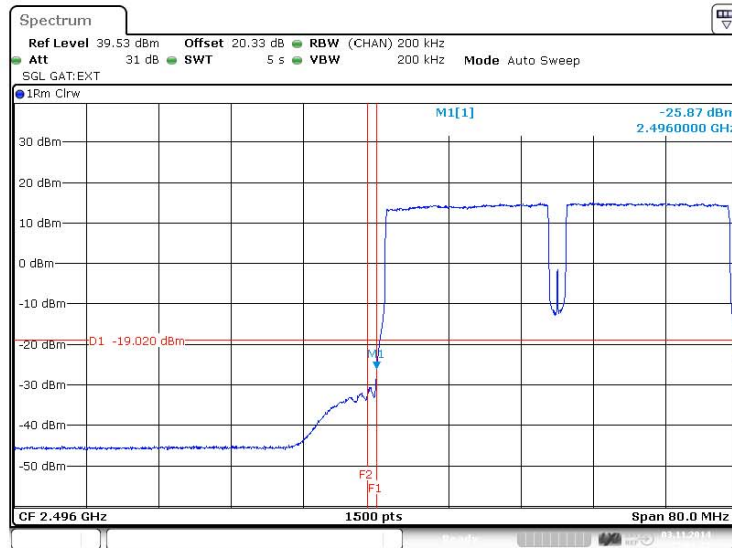
Figure 258 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Product Service

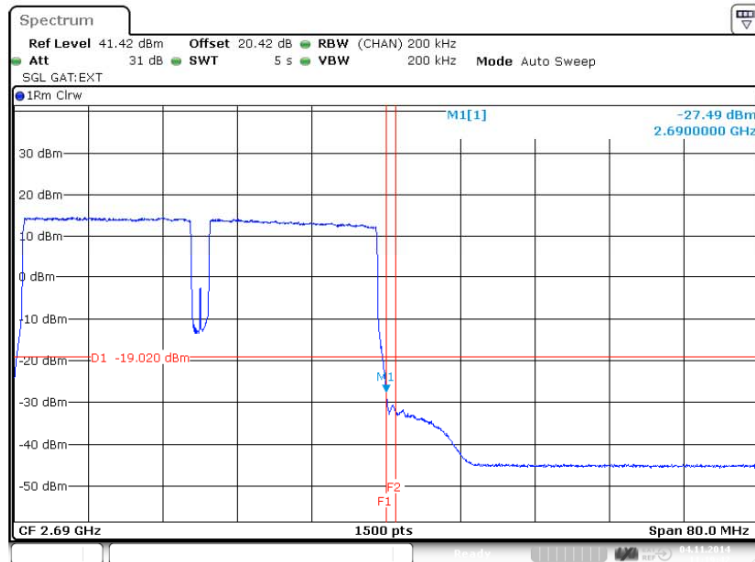
FCC ID:
VBNFWHD-01

Test Report No:
D522886124



Date: 3.NOV.2014 15:01:21

Figure 259 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



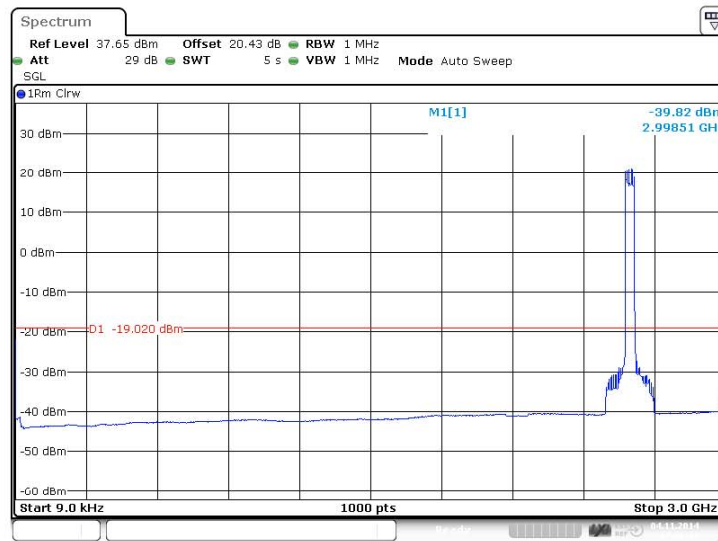
Date: 4.NOV.2014 11:19:42



FCC ID:
VBNFWHD-01

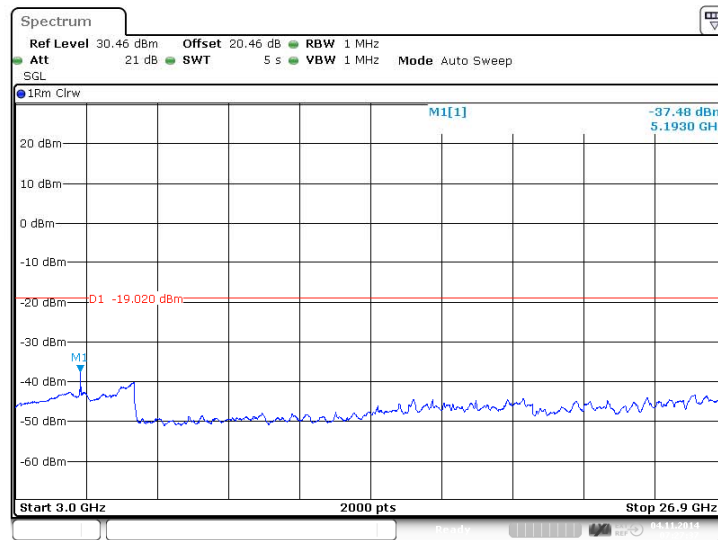
Test Report No:
D522886124

Figure 260 Spurious Emissions (Upper Band Edge) – 64QAM (2660.0/2680.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 07:26:32

Figure 261 Spurious Emissions (9kHz – 3GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Date: 4.NOV.2014 07:27:38

Figure 262 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

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

Config A, B:

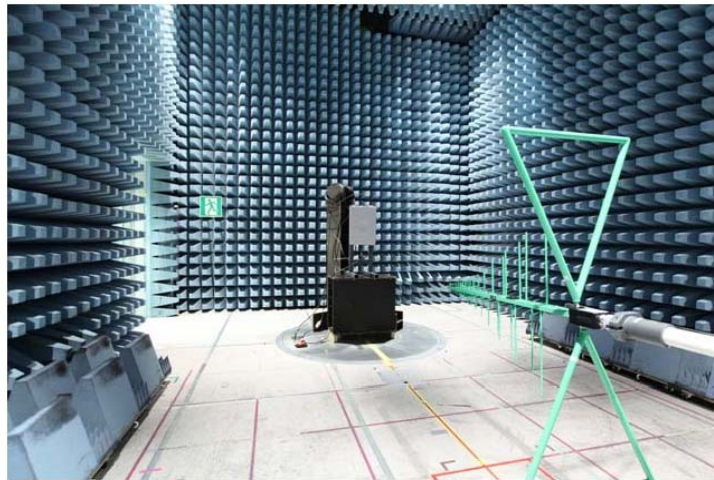


Figure 263 Photograph of the anechoic chamber with the EUT

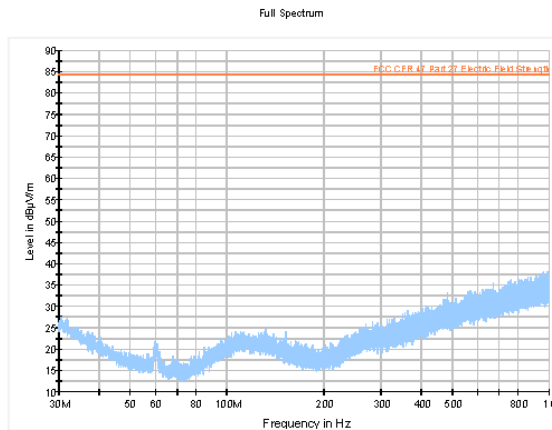
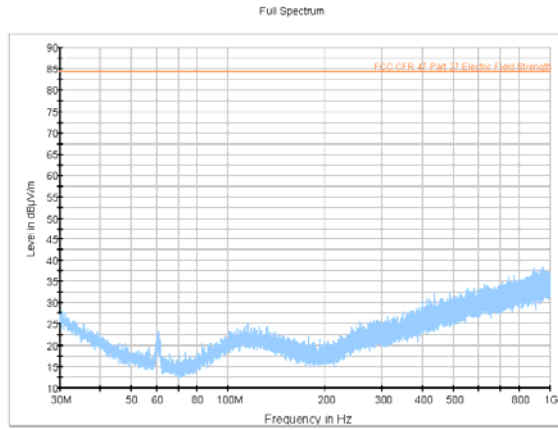


Figure 264 Radiated Emission 30 MHz – 1 GHz (2501.1 MHz and 2593 MHz MHz) (10MHz Channel BW)

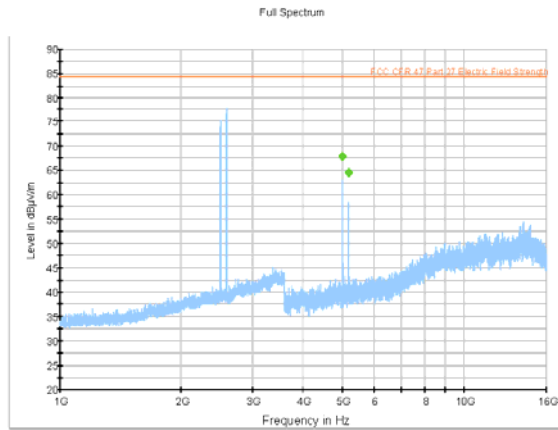


FCC ID:
VBNFWHD-01

Test Report No:
D522886124



**Figure 265 Radiated Emission 30 MHz – 1 GHz (2593 MHz and 2685 MHz)
(10MHz Channel BW)**



**Figure 266 Radiated Emission 1 GHz – 16 GHz (2501.1 MHz and 2593 MHz)
(10MHz Channel BW)**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5003.471000	67.88	84.40	16.52
5185.635333	64.51	84.40	20.25



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

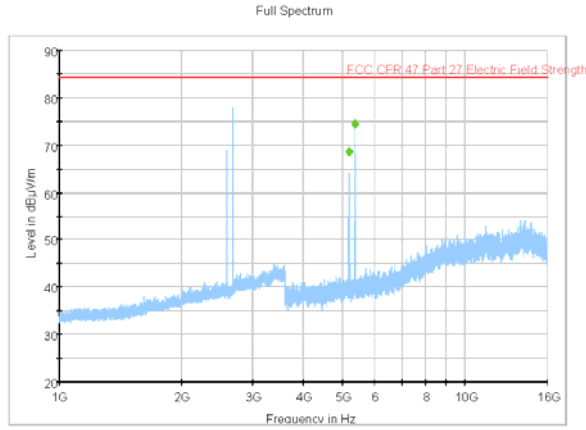


Figure 267 Radiated Emission 1 GHz – 16 GHz (2593 MHz and 2685 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5186.341333	68.65	84.40	15.75
5369.864000	74.61	84.40	9.79

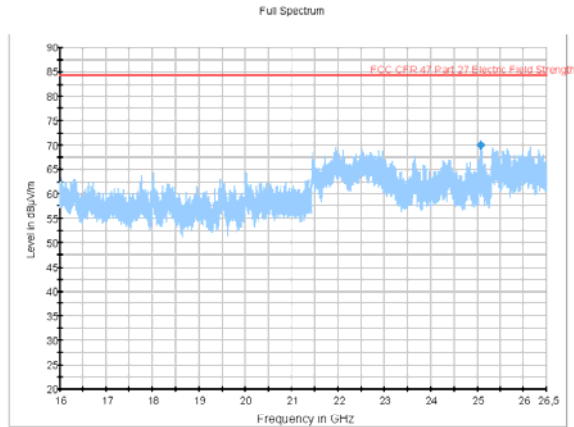


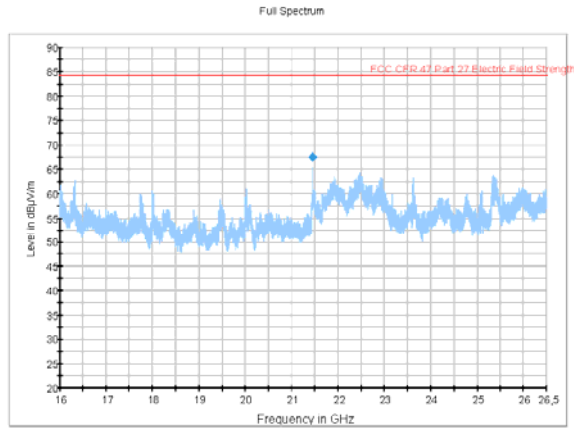
Figure 268 Radiated Emission 16 GHz – 26.5 GHz (2501.1 MHz and 2593 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
25082.150000	69.93	84.40	14.47



FCC ID:
VBNFWHD-01

Test Report No:
D522886124



**Figure 269 Radiated Emission 16 GHz – 26.5 GHz (2593 MHz and 2685 MHz)
(10MHz Channel BW)**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
21454.750000	67.51	84.40	16.89



FCC ID:
VBNFWHD-01

Test Report No:
D522886124

Config B:

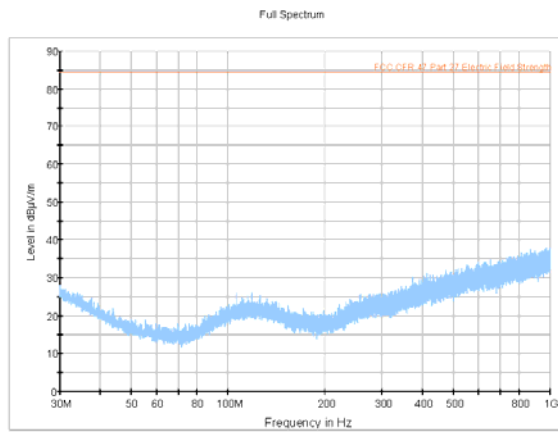


Figure 270 Radiated Emission 30 MHz – 1 GHz (2501/2511 MHz) (10MHz Channel BW)

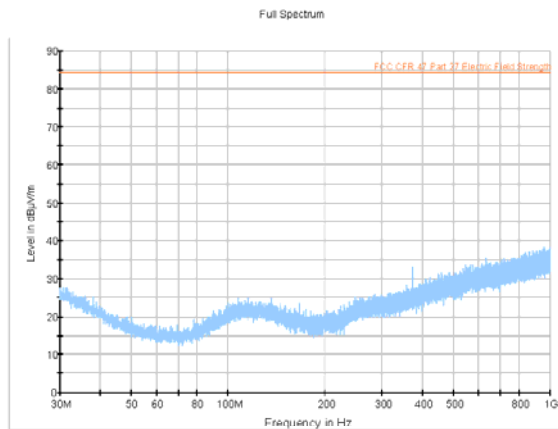


Figure 271 Radiated Emission 30 MHz – 1 GHz (2588/2598 MHz) (10MHz Channel BW)



FCC ID:
VBNFWHD-01

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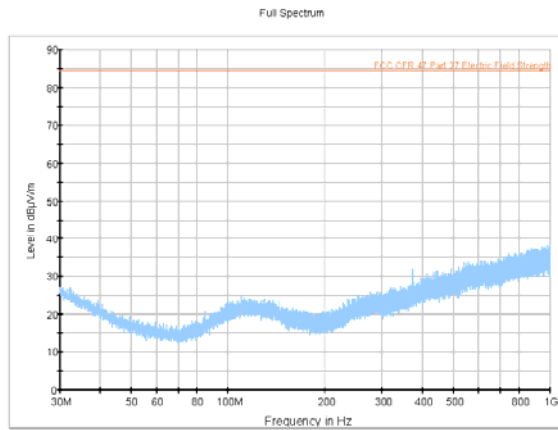


Figure 272 Radiated Emission 30 MHz – 1 GHz (2675/2685 MHz) (10MHz Channel BW)

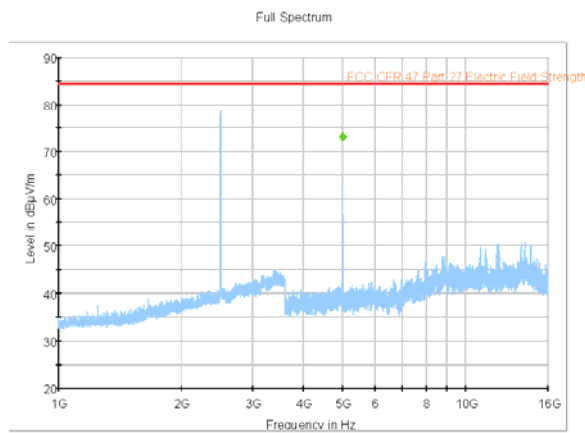


Figure 273 Radiated Emission 1 GHz – 16GHz (2501/2511 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5000.620333	73.06	84.40	11.34



Product Service

FCC ID:
VBNFWHD-01

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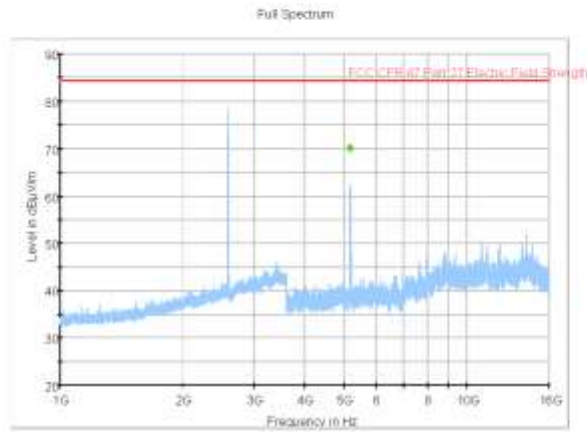


Figure 274 Radiated Emission 1 GHz – 16GHz (2588/2598 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5176.711667	70.06	84.40	14.34

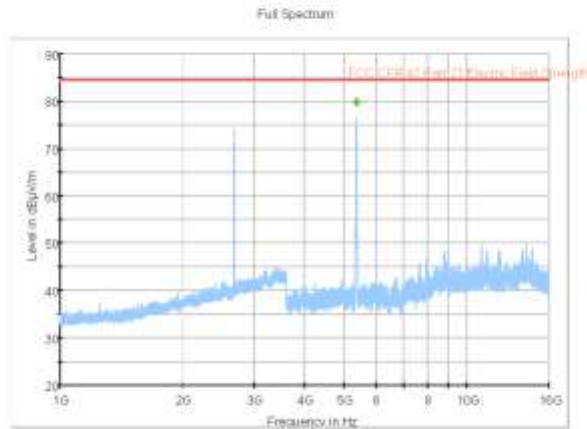


Figure 275 Radiated Emission 1 GHz – 16GHz (2675/2685 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5355.405667	79.78	84.40	4.62



Product Service

FCC ID:
VBNFWHD-01

Test Report No:
D522886124

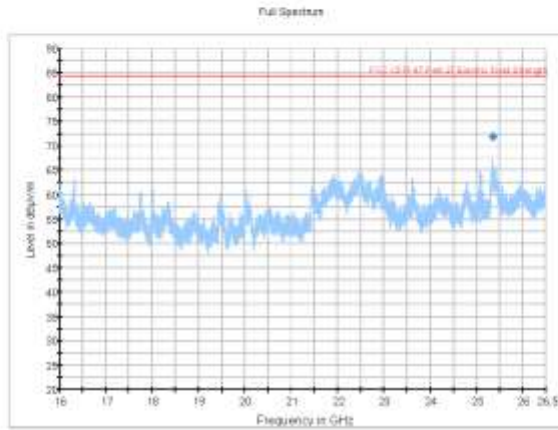


Figure 276 Radiated Emission 16 GHz – 26.5 GHz (2501/2511 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
25350.600000	71.91	84.40	12.49

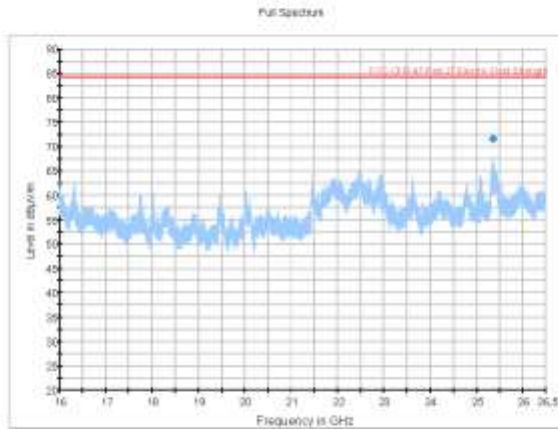


Figure 277 Radiated Emission 16 GHz – 26.5 GHz (2588/2598 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
25350.600000	71.66	84.40	12.74



Product Service

FCC ID:
VBNFWHD-01

Test Report No:
D522886124

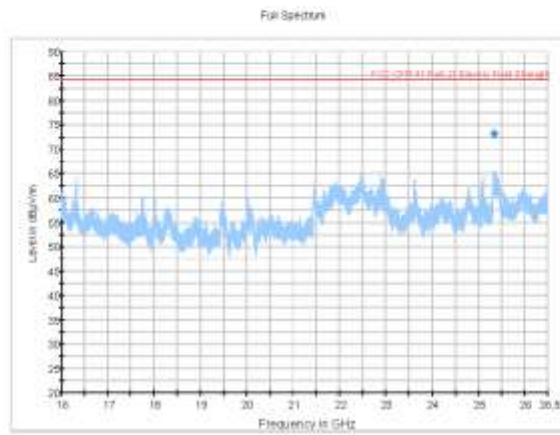


Figure 278 Radiated Emission 16 GHz – 26.5 GHz (2675/2685 MHz) (10MHz Channel BW)

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
25348.150000	73.14	84.40	11.26