

Figure 8.5-131: Lower band edge for FCC, 5 MHz channel, 24 dBi antenna, cho

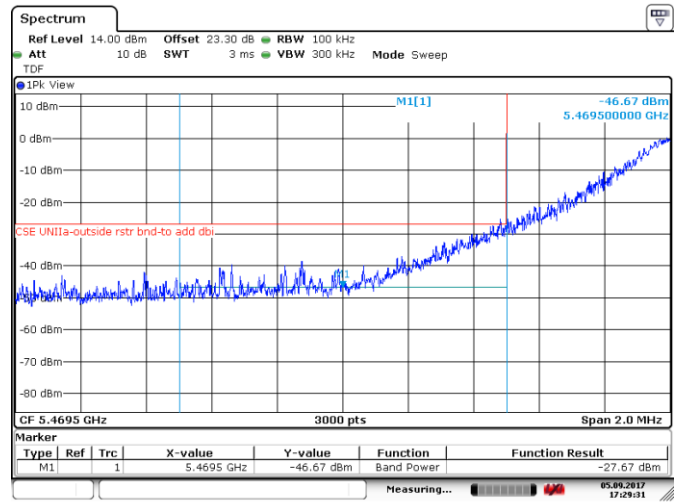


Figure 8.5-132: Lower band edge for FCC, 5 MHz channel, 24 dBi antenna, ch1

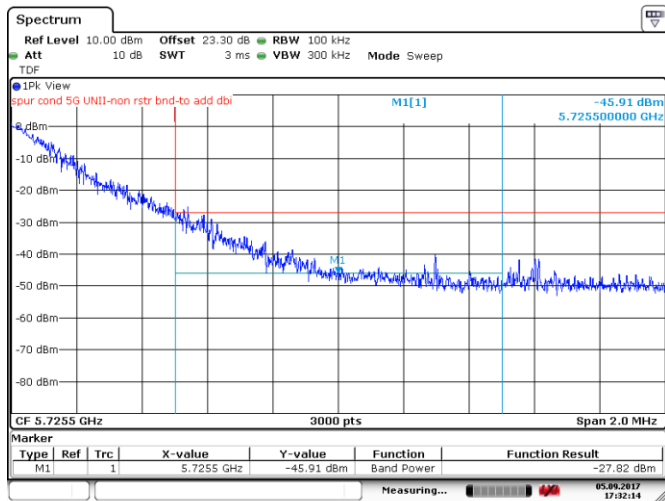


Figure 8.5-133: Upper band edge for FCC, 5 MHz channel, 24 dBi antenna, cho

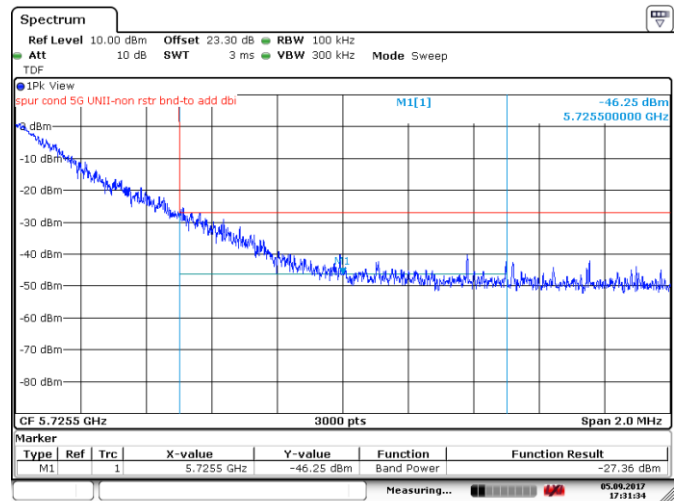
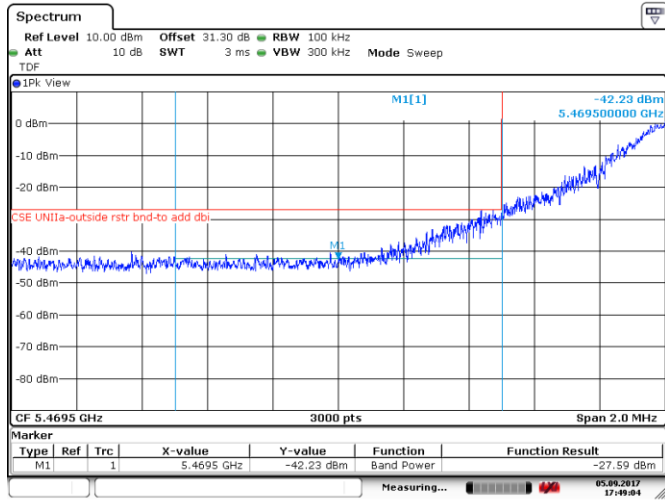
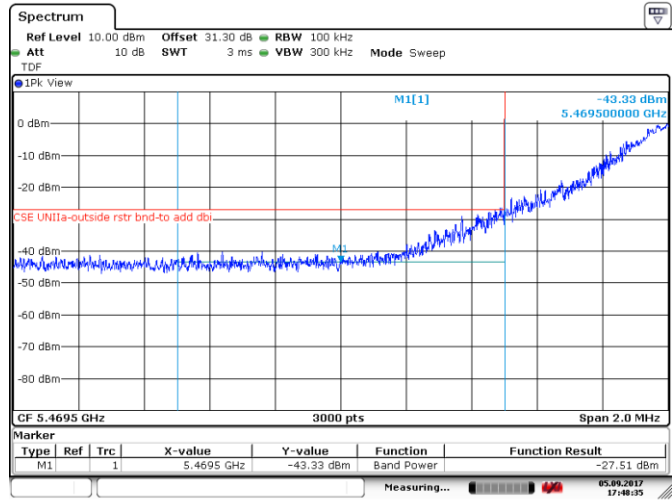


Figure 8.5-134: Upper band edge for FCC, 5 MHz channel, 24 dBi antenna, ch1



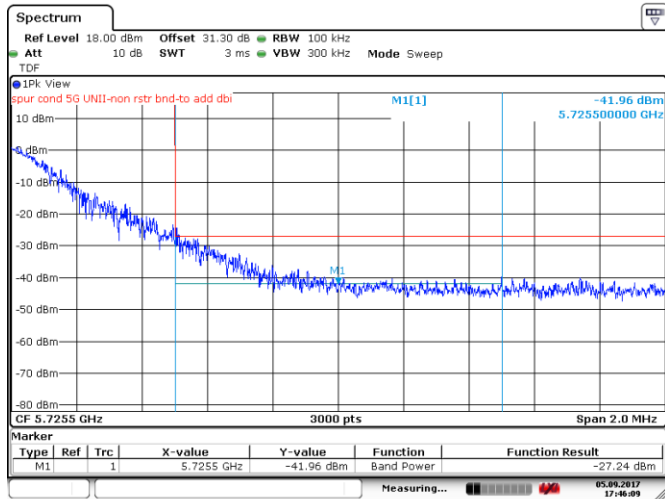
Date: 5.SEP.2017 17:49:04

Figure 8.5-135: Lower band edge for FCC, 5 MHz channel, 32 dBi antenna, ch0



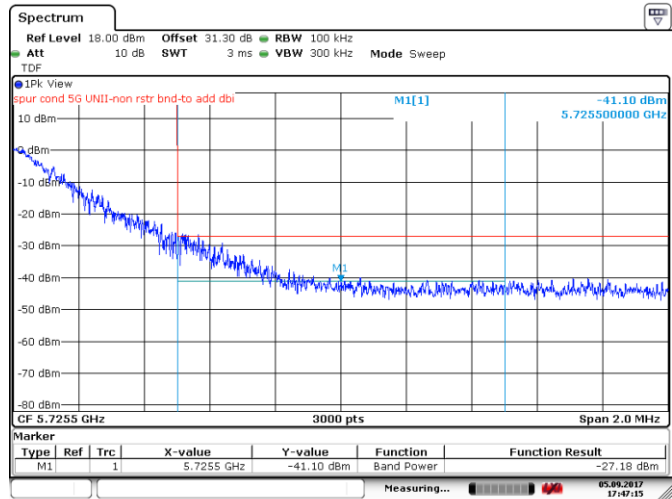
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Figure 8.5-136: Lower band edge for FCC, 5 MHz channel, 32 dBi antenna, ch1



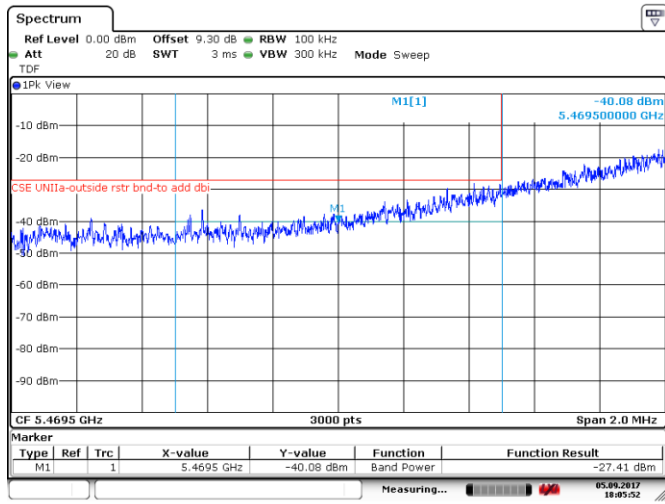
Date: 5.SEP.2017 17:46:10

Figure 8.5-137: Upper band edge for FCC, 5 MHz channel, 32 dBi antenna, ch0



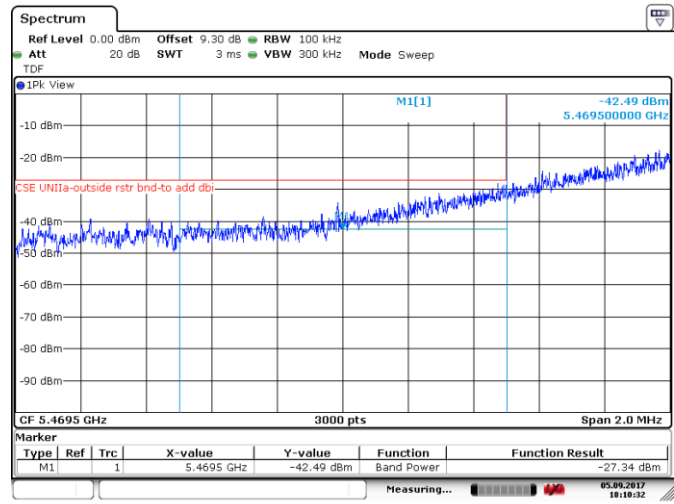
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Figure 8.5-138: Upper band edge for FCC, 5 MHz channel, 32 dBi antenna, ch1



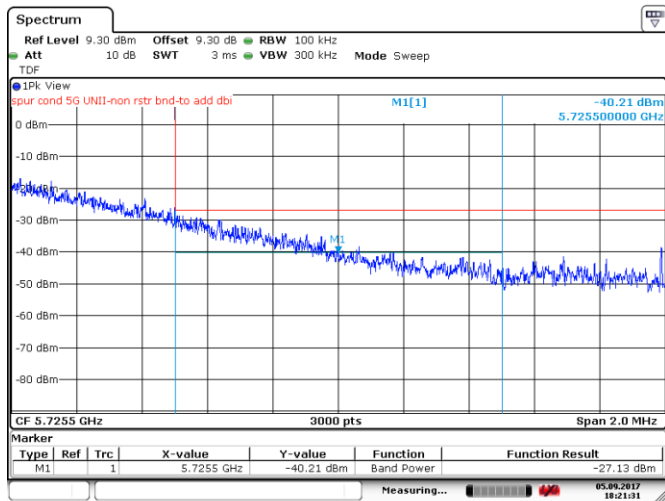
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Figure 8.5-139: Lower band edge for FCC, 10 MHz channel, 10 dBi antenna, cho



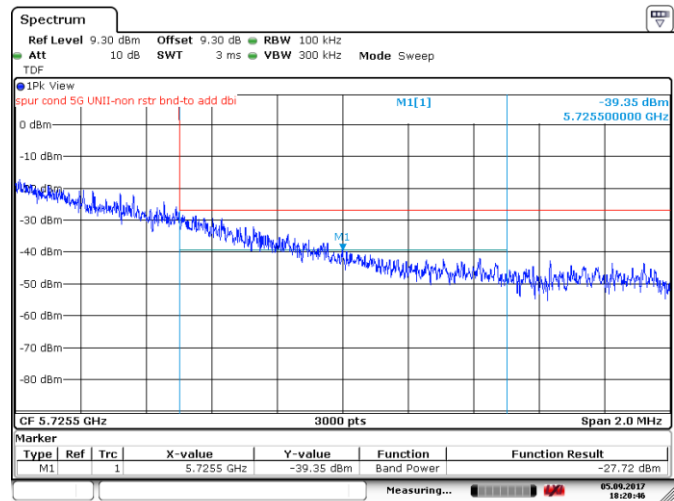
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Figure 8.5-140: Lower band edge for FCC, 10 MHz channel, 10 dBi antenna, ch1



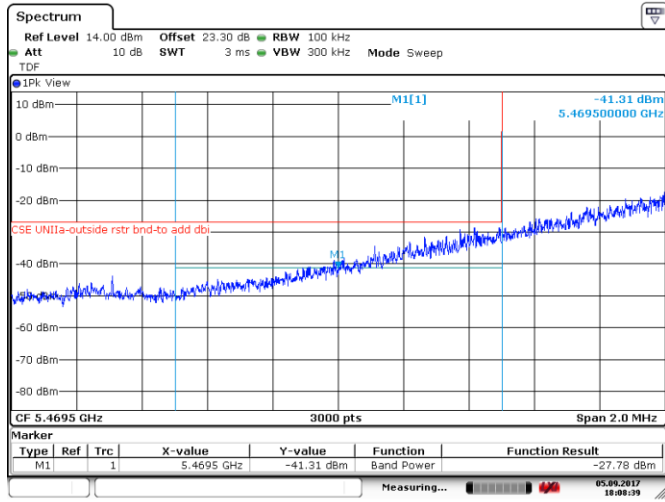
Date: 5.SEP.2017 18:21:31

Figure 8.5-141: Upper band edge for FCC, 10 MHz channel, 10 dBi antenna, cho



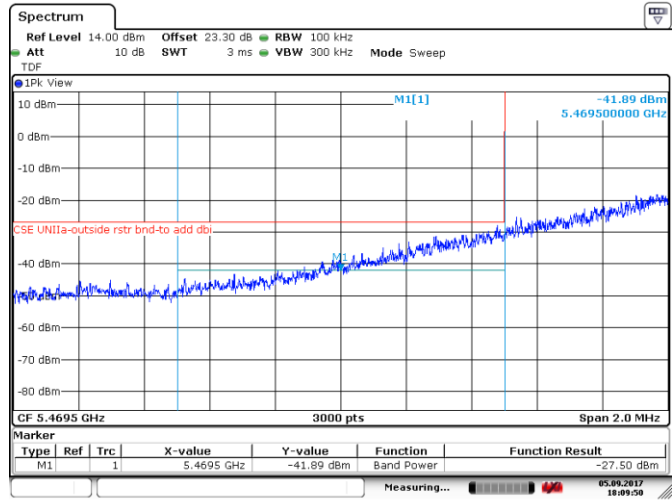
Date: 5.SEP.2017 18:20:46

Figure 8.5-142: Upper band edge for FCC, 10 MHz channel, 10 dBi antenna, ch1



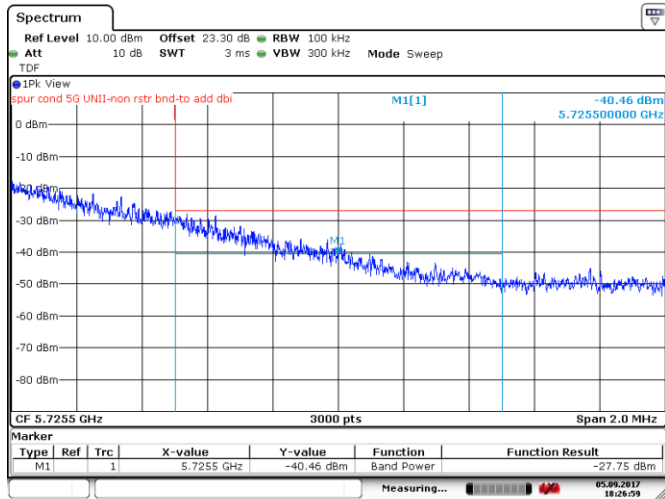
Date: 5.SEP.2017 18:08:39

Figure 8.5-143: Lower band edge for FCC, 10 MHz channel, 24 dBi antenna, ch0



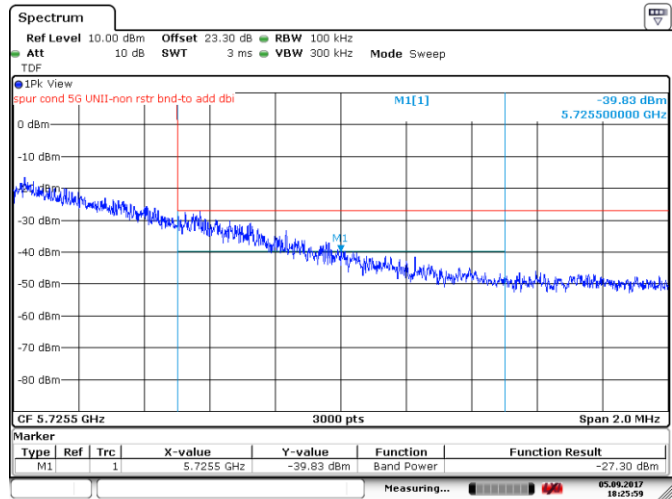
Date: 5.SEP.2017 18:09:50

Figure 8.5-144: Lower band edge for FCC, 10 MHz channel, 24 dBi antenna, ch1



Date: 5.SEP.2017 18:27:00

Figure 8.5-145: Upper band edge for FCC, 10 MHz channel, 24 dBi antenna, ch0

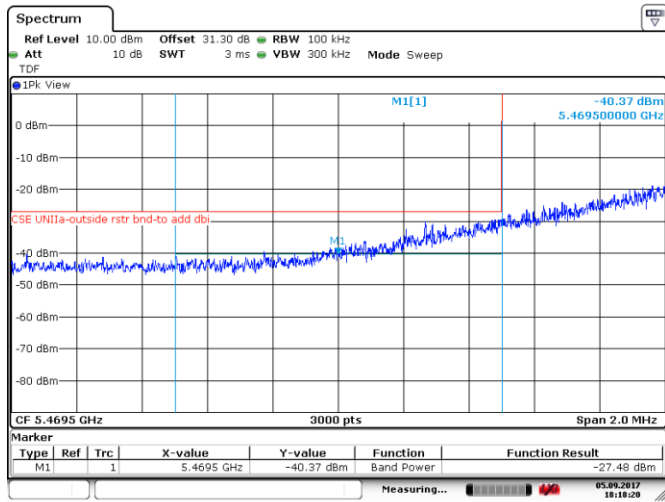


Date: 5.SEP.2017 18:26:00

Figure 8.5-146: Upper band edge for FCC, 10 MHz channel, 24 dBi antenna, ch1

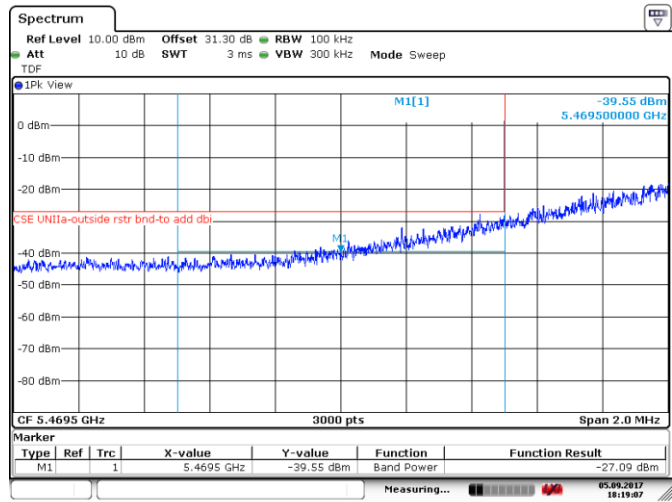
Section 8
Test name
Specification

Testing data
 FCC 15.407(b) and RSS-247 6.2.3.2 Spurious (out-of-band) emissions
 FCC Part 15 Subpart E and RSS-247 Issue 2



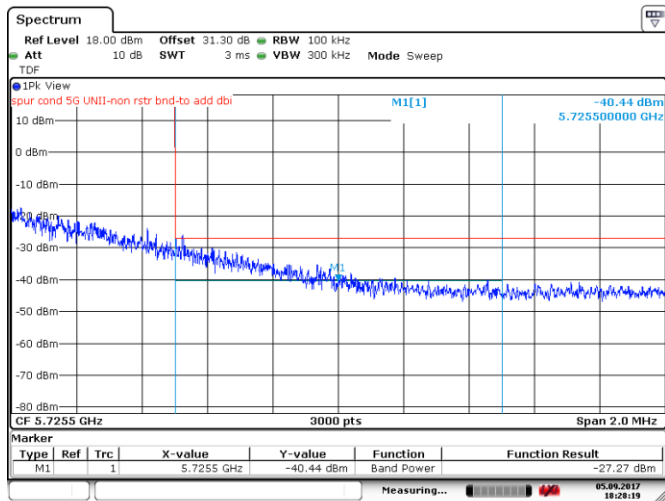
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Figure 8.5-147: Lower band edge for FCC, 10 MHz channel, 32 dBi antenna, ch0



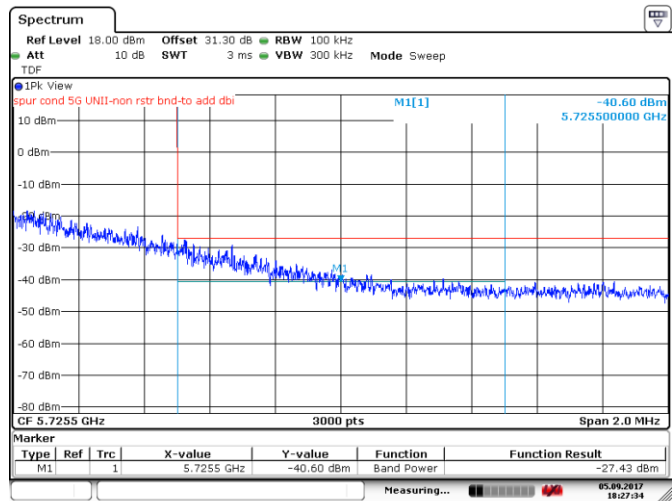
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Figure 8.5-148: Lower band edge for FCC, 10 MHz channel, 32 dBi antenna, ch1



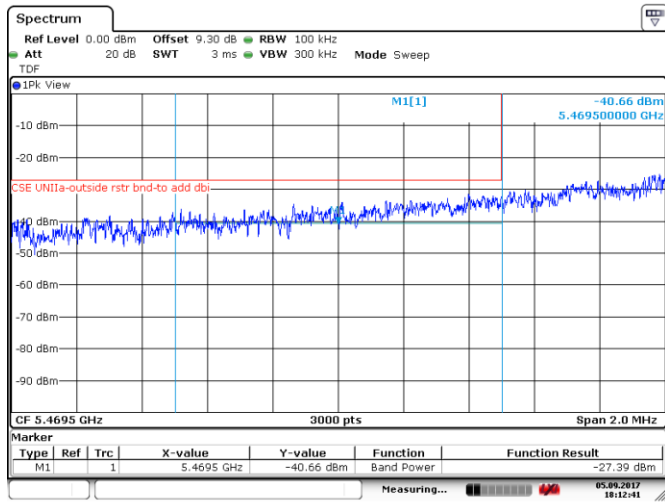
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Figure 8.5-149: Upper band edge for FCC, 10 MHz channel, 32 dBi antenna, ch0



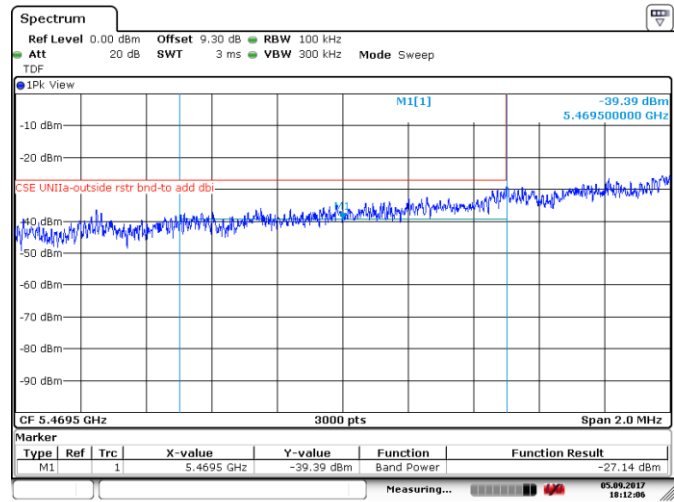
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Figure 8.5-150: Upper band edge for FCC, 10 MHz channel, 32 dBi antenna, ch1



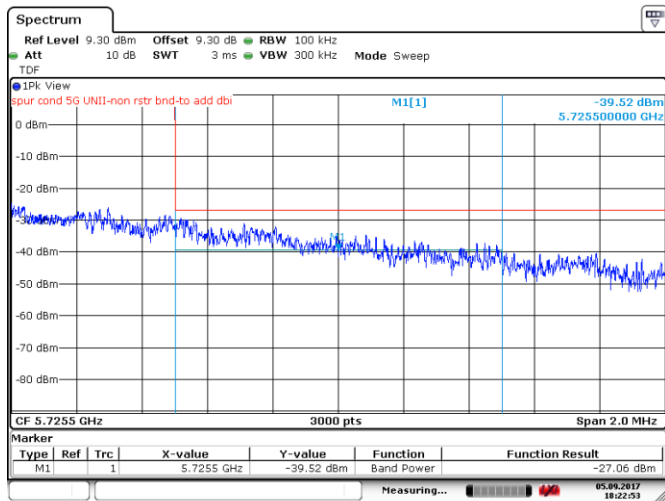
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Figure 8.5-151: Lower band edge for FCC, 20 MHz channel, 10 dBi antenna, cho



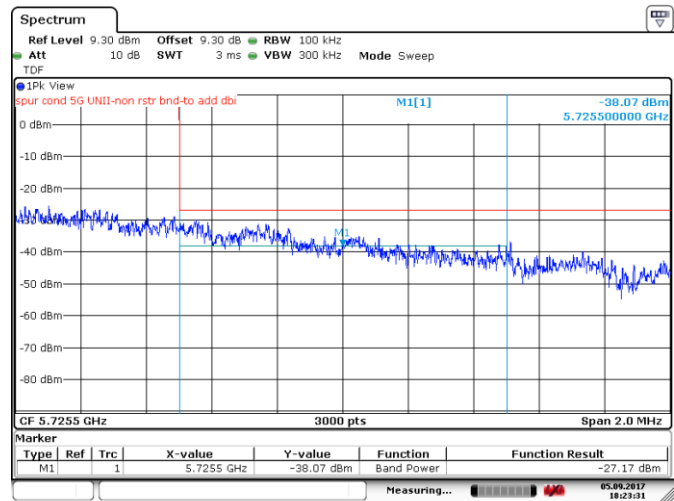
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Figure 8.5-152: Lower band edge for FCC, 20 MHz channel, 10 dBi antenna, ch1



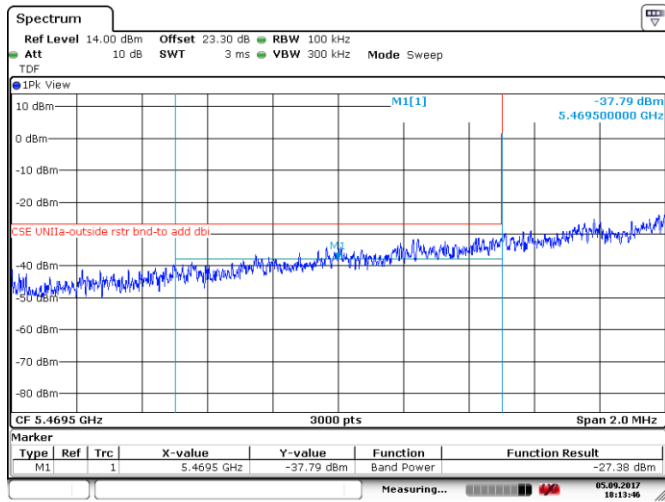
Date: 5.SEP.2017 18:22:53

Figure 8.5-153: Upper band edge for FCC, 20 MHz channel, 10 dBi antenna, cho



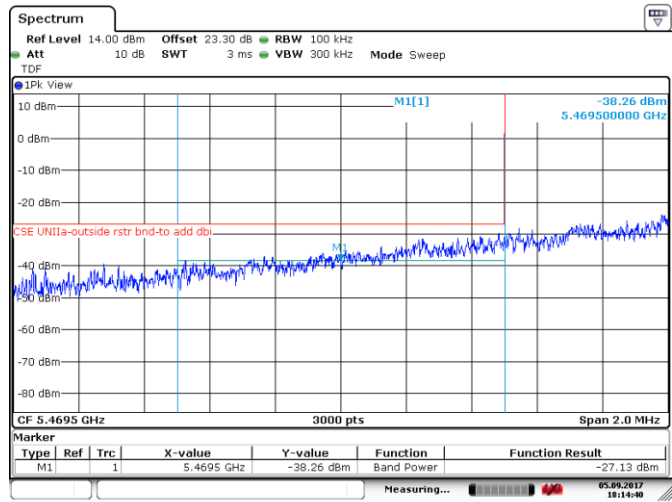
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Figure 8.5-154: Upper band edge for FCC, 20 MHz channel, 10 dBi antenna, ch1



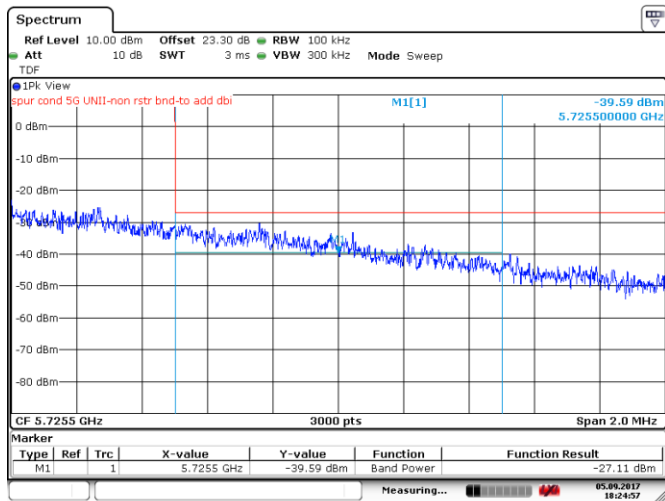
Date: 5.SEP.2017 18:13:46

Figure 8.5-155: Lower band edge for FCC, 20 MHz channel, 24 dBi antenna, ch0



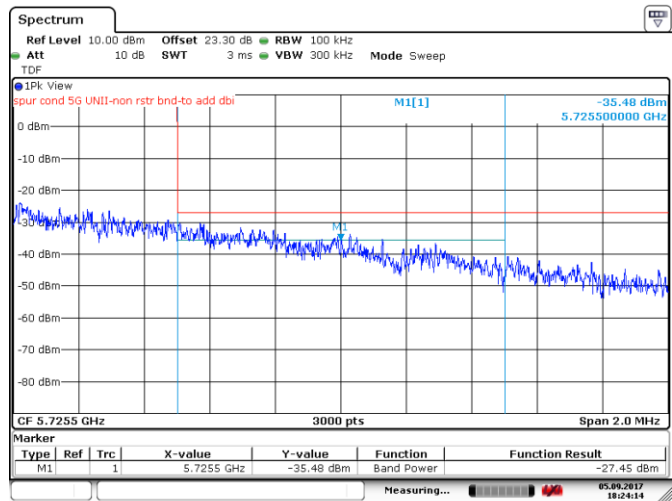
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Figure 8.5-156: Lower band edge for FCC, 20 MHz channel, 24 dBi antenna, ch1



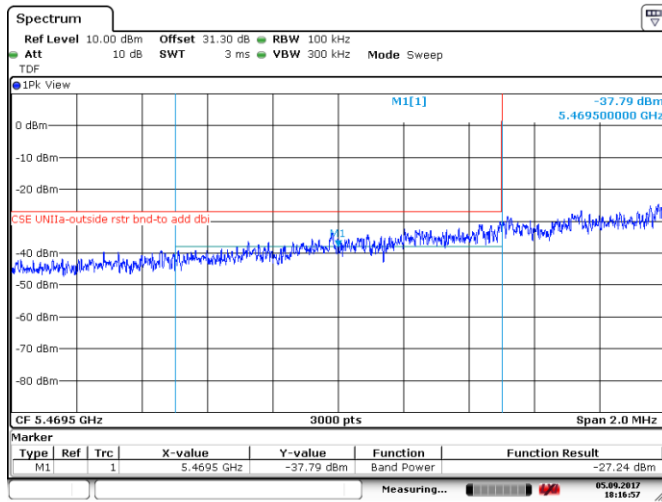
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Figure 8.5-157: Upper band edge for FCC, 20 MHz channel, 24 dBi antenna, ch0



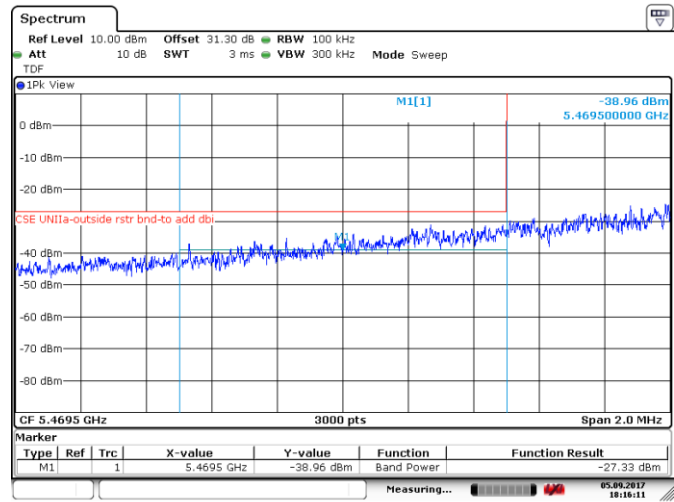
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Figure 8.5-158: Upper band edge for FCC, 20 MHz channel, 24 dBi antenna, ch1



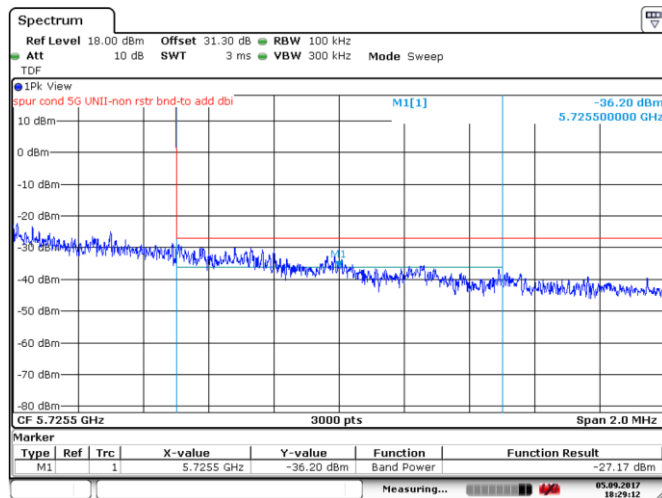
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Figure 8.5-159: Lower band edge for FCC, 20 MHz channel, 32 dBi antenna, cho



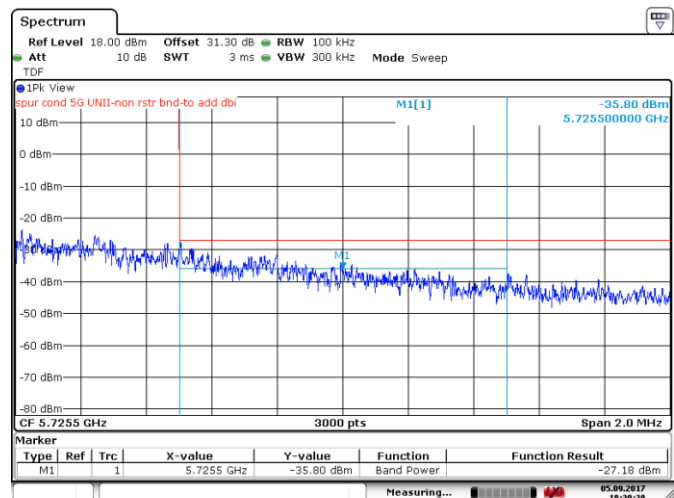
Date: 5.SEP.2017 18:16:12

Figure 8.5-160: Lower band edge for FCC, 20 MHz channel, 32 dBi antenna, ch1



Date: 5.SEP.2017 18:29:12

Figure 8.5-161: Upper band edge for FCC, 20 MHz channel, 32 dBi antenna, cho



Date: 5.SEP.2017 18:30:28

Figure 8.5-162: Upper band edge for FCC, 20 MHz channel, 32 dBi antenna, ch1

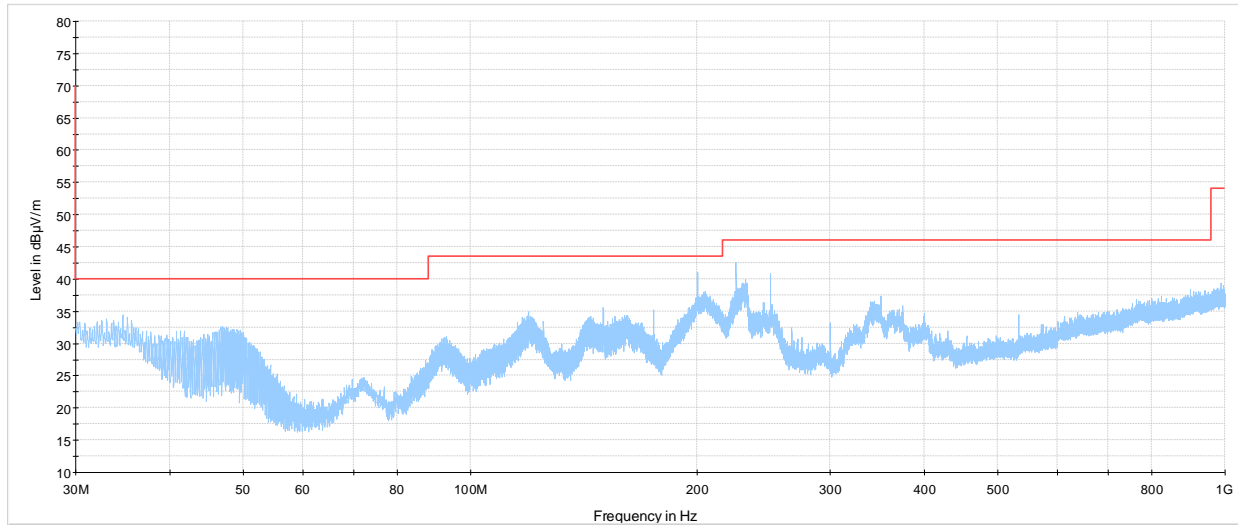


Figure 8.5-163: Radiated spurious emissions below 1 GHz, low channel

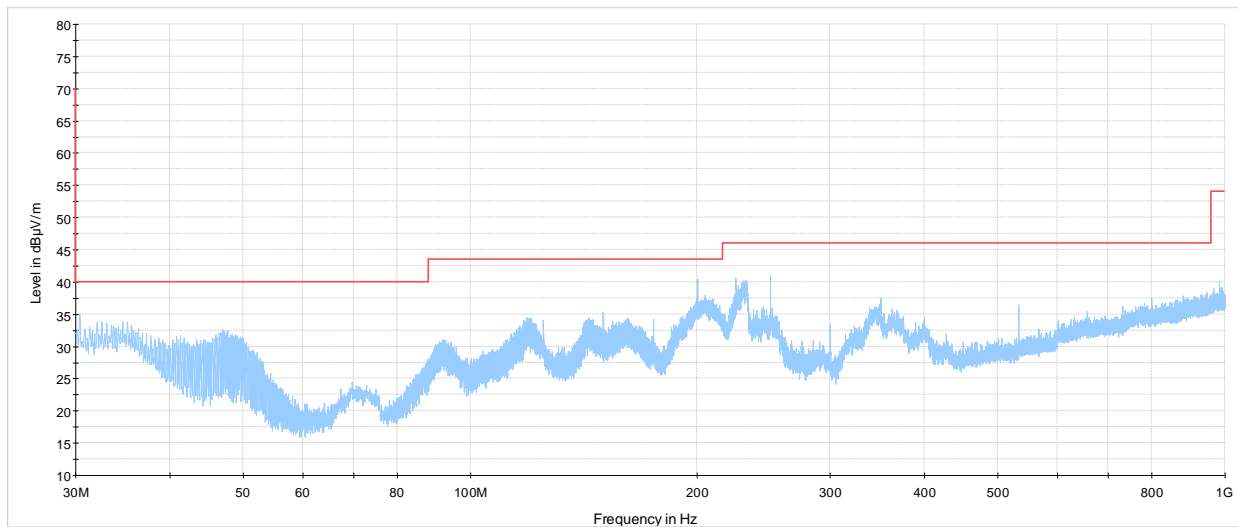


Figure 8.5-164: Radiated spurious emissions below 1 GHz, mid channel

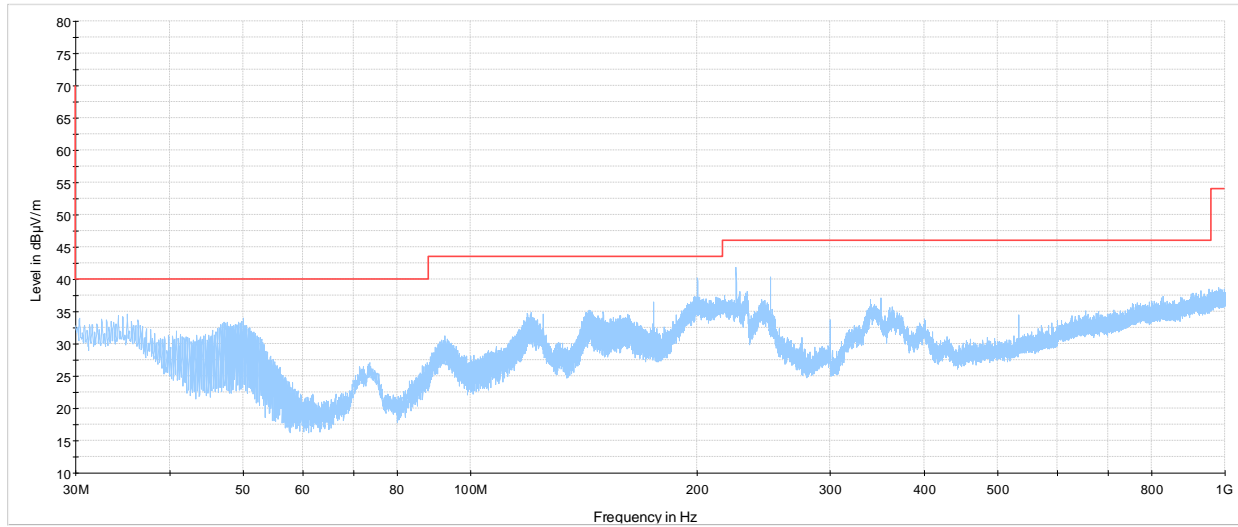


Figure 8.5-165: Radiated spurious emissions below 1 GHz, high channel

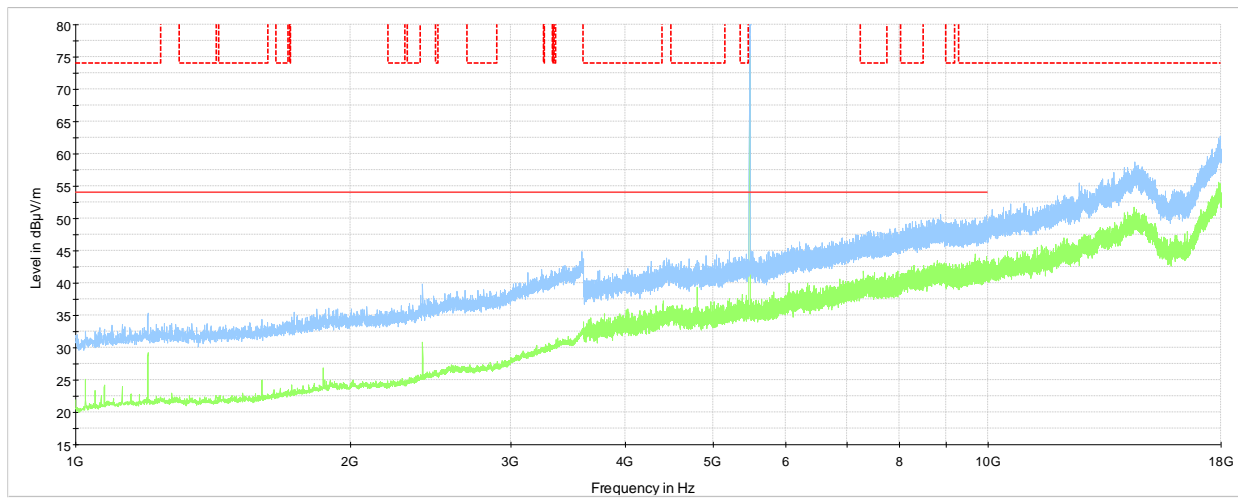


Figure 8.5-166: Radiated spurious emissions within 1-18 GHz, low channel

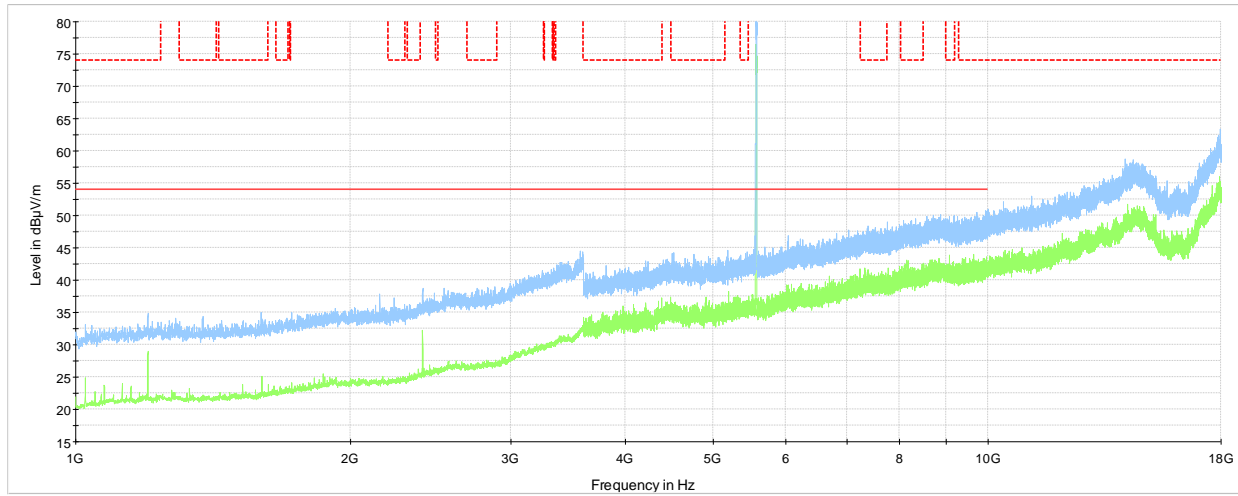


Figure 8.5-167: Radiated spurious emissions within 1–18 GHz, mid channel

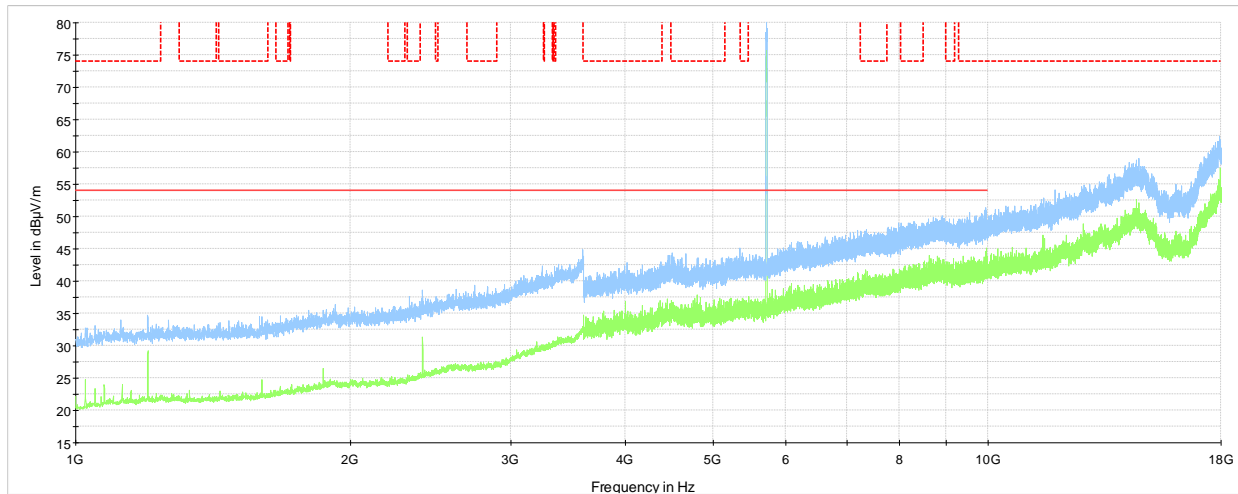


Figure 8.5-168: Radiated spurious emissions within 1–18 GHz, high channel

Note: spurious cabinet radiation scans were performed at the frequencies up to 40 GHz. No emissions were detected at the frequencies above 18 GHz.

8.6 FCC 15.407(g) and RSS-Gen 8.11 Frequency stability

8.6.1 Definitions and limits

Manufacturers of U-NII (IC: LE-LAN) devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

8.6.2 Test summary

Test date:	September 27, 2017
Test engineer:	Yong Huang
Verdict:	Pass

8.6.3 Observations, settings and special notes

Spectrum analyser settings:

Resolution bandwidth:	10 Hz
Video bandwidth:	10 Hz
Detector mode:	Peak
Trace mode:	Max Hold

8.6.4 Test data

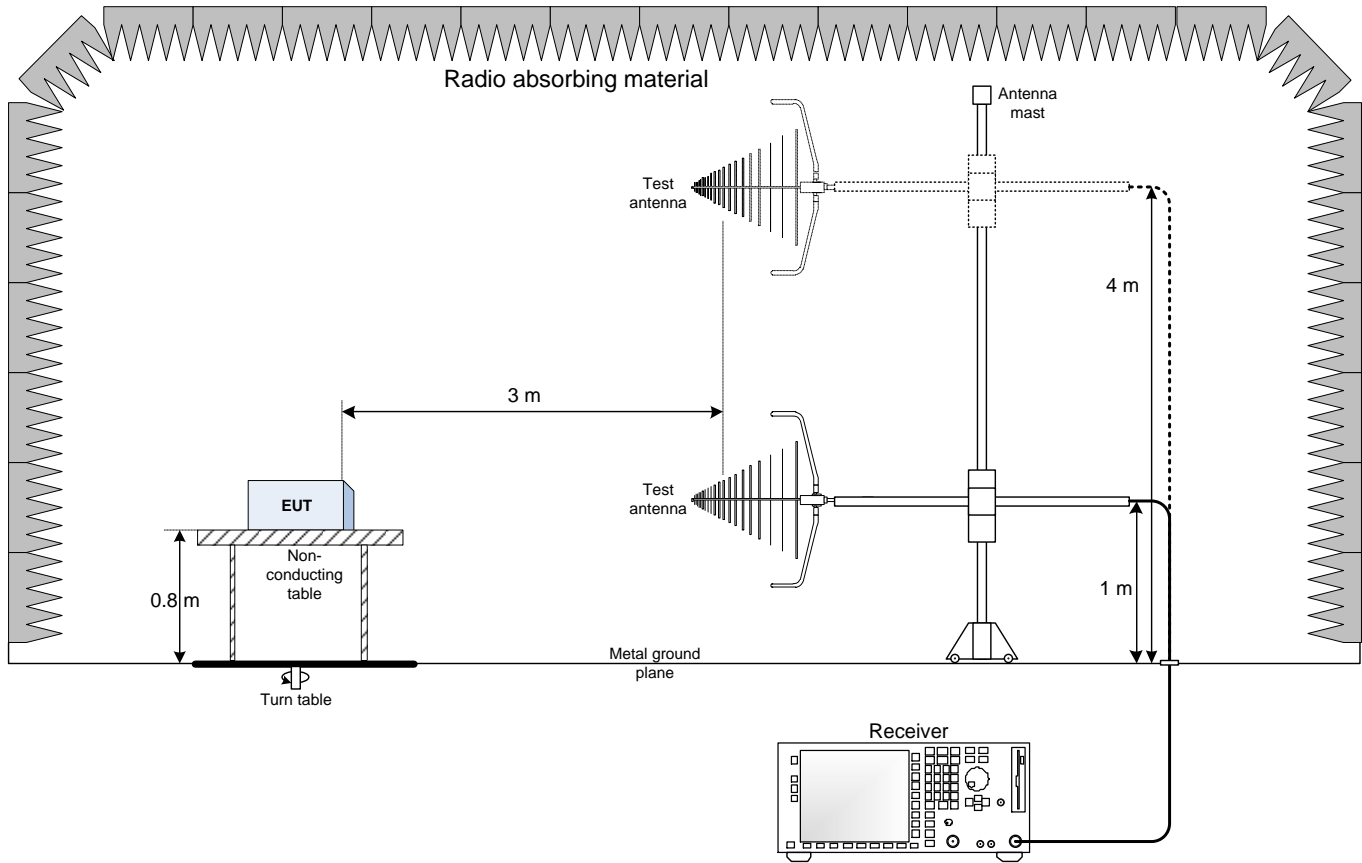
Table 8.6-1: Frequency drift measurement

Test conditions	Frequency, Hz	Drift, Hz
+50 °C, Nominal	5.57004930	-21600
+40 °C, Nominal	5.57005250	-18400
+30 °C, Nominal	5.57006350	-7400
+20 °C, +15 %	5.57007090	0
+20 °C, Nominal	5.57007090	reference
+20 °C, -15 %	5.57007090	0
+10 °C, Nominal	5.57008490	14000
0 °C, Nominal	5.57009310	22200
-10 °C, Nominal	5.57009390	23000
-20 °C, Nominal	5.57008410	13200
-30 °C, Nominal	5.57007050	-400

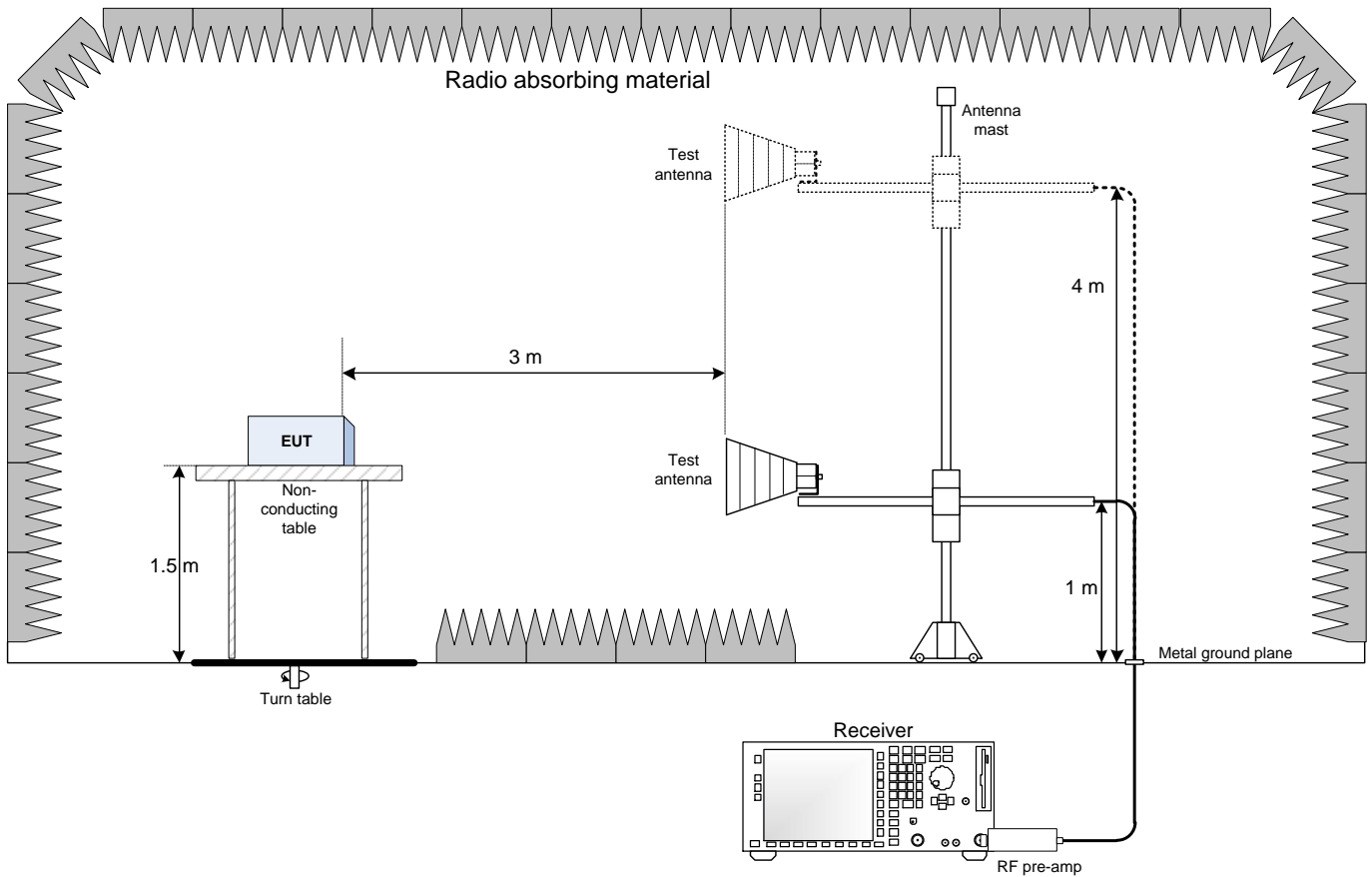
Note: Minimum lower band edge margin is more than 190 kHz.
 Minimum upper band edge margin is more than 190 kHz
 The frequency drifts in above table are within these minimum margins, the emissions are deemed to maintain within the band of operation.

Section 9. Block diagrams of test set-ups

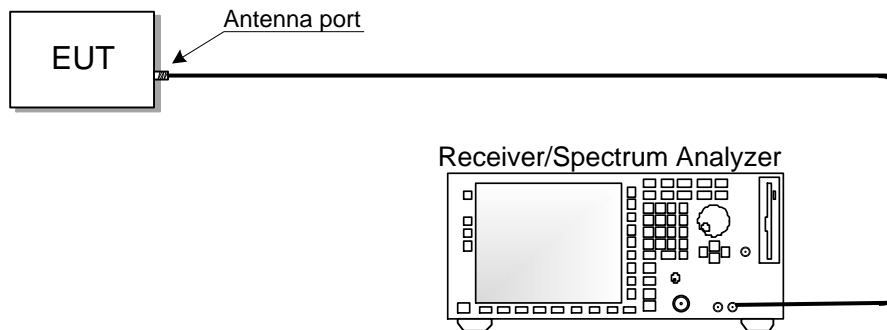
9.1 Radiated emissions set-up for frequencies below 1 GHz



9.2 Radiated emissions set-up for frequencies above 1 GHz



9.3 Conducted antenna port set-up



9.4 Conducted emissions on AC line set-up

