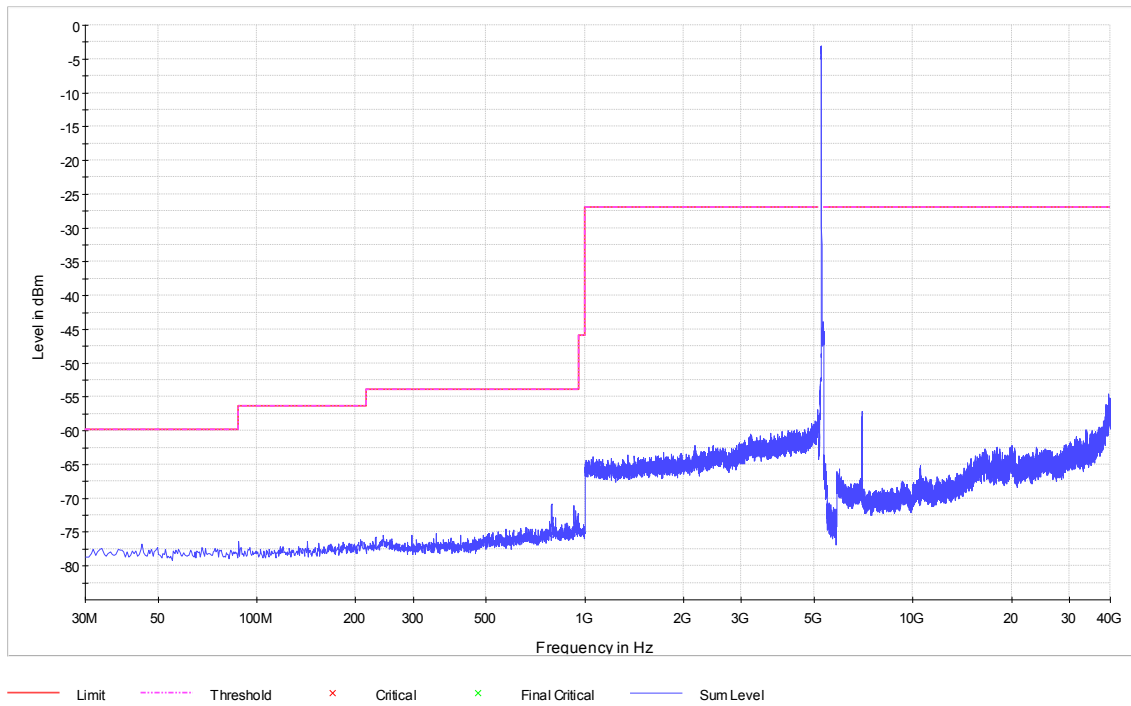


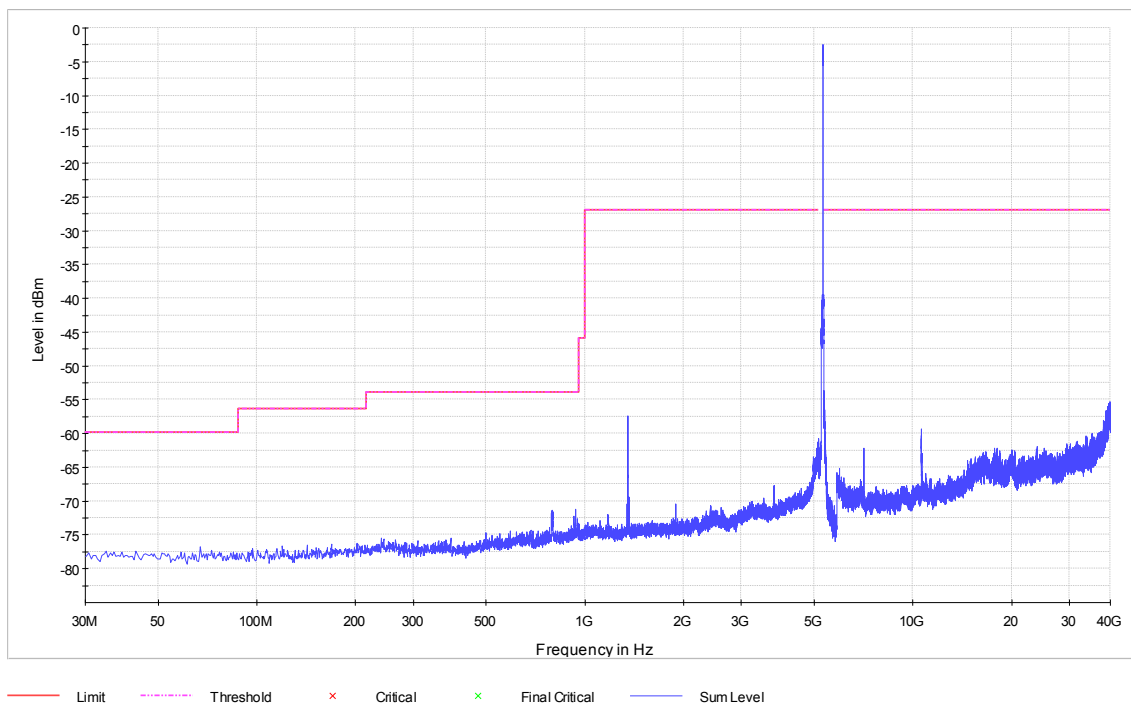
Plot 275: Mode 1, U-NII-2A, CSE, channel 52, 5260 MHz

Spurious



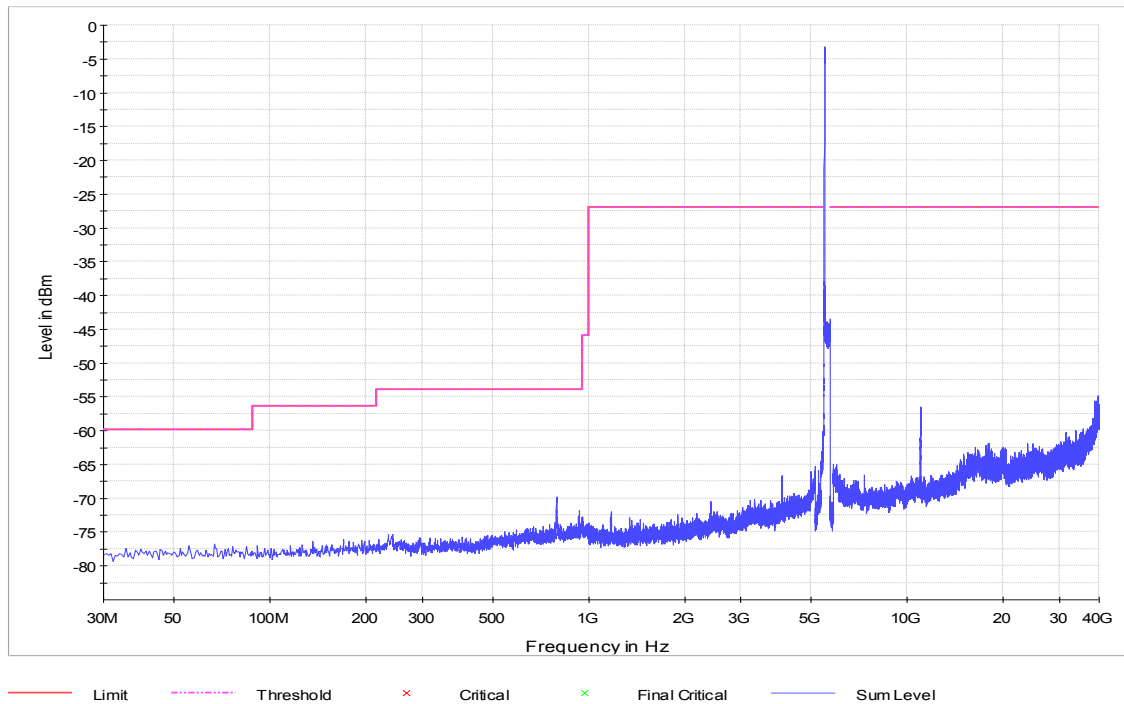
Plot 276: Mode 1, U-NII-2A, CSE, channel 64, 5.320 MHz

Spurious



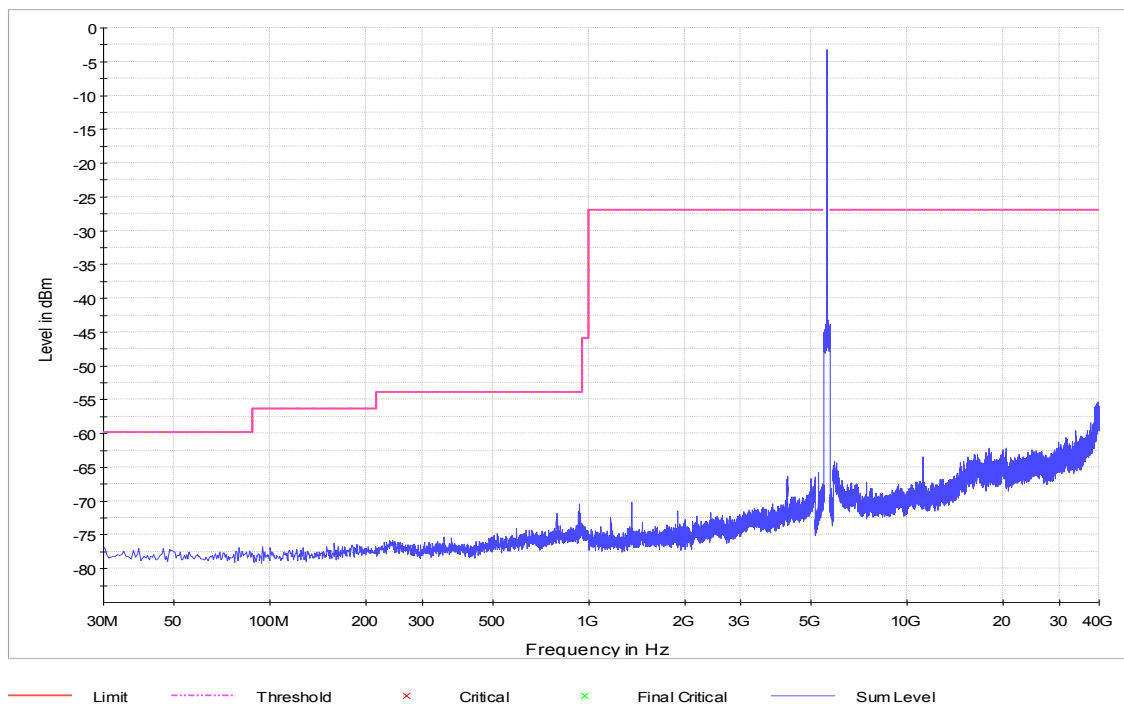
Plot 277: Mode 1, U-NII-2C, CSE, channel 100, 5500 MHz

Spurious



Plot 278: Mode 1, U-NII-2C, CSE, channel 120, 5600 MHz

Spurious

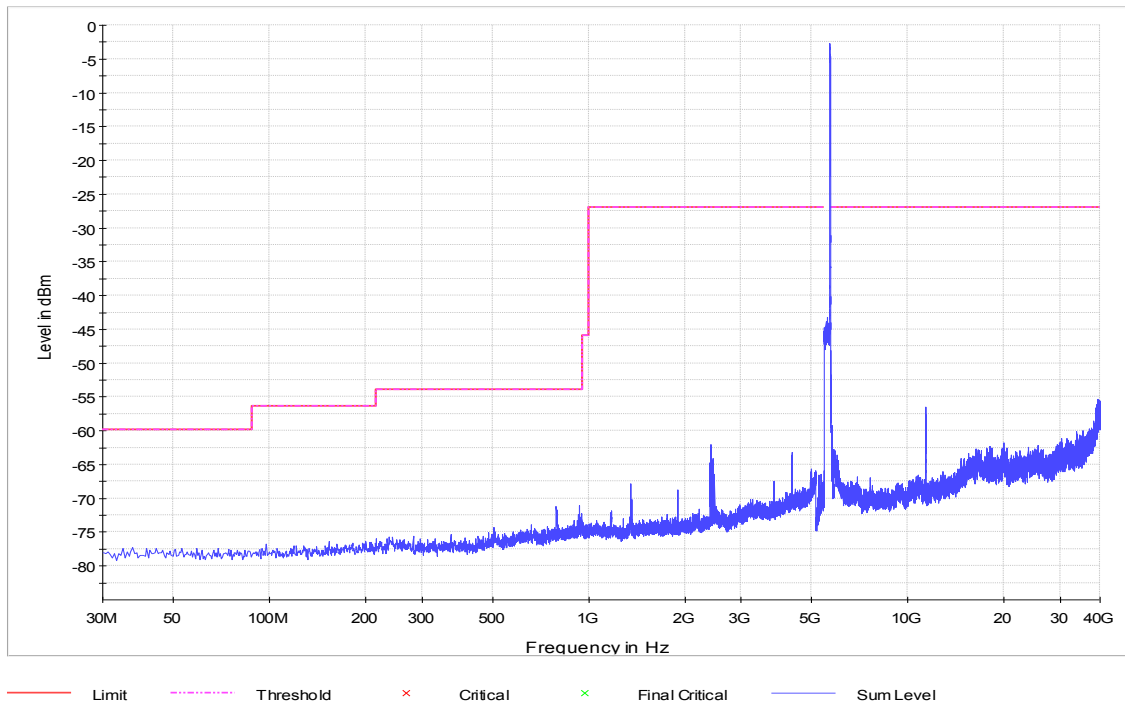


TR no.: 21065785-21222-0

2021-09-10

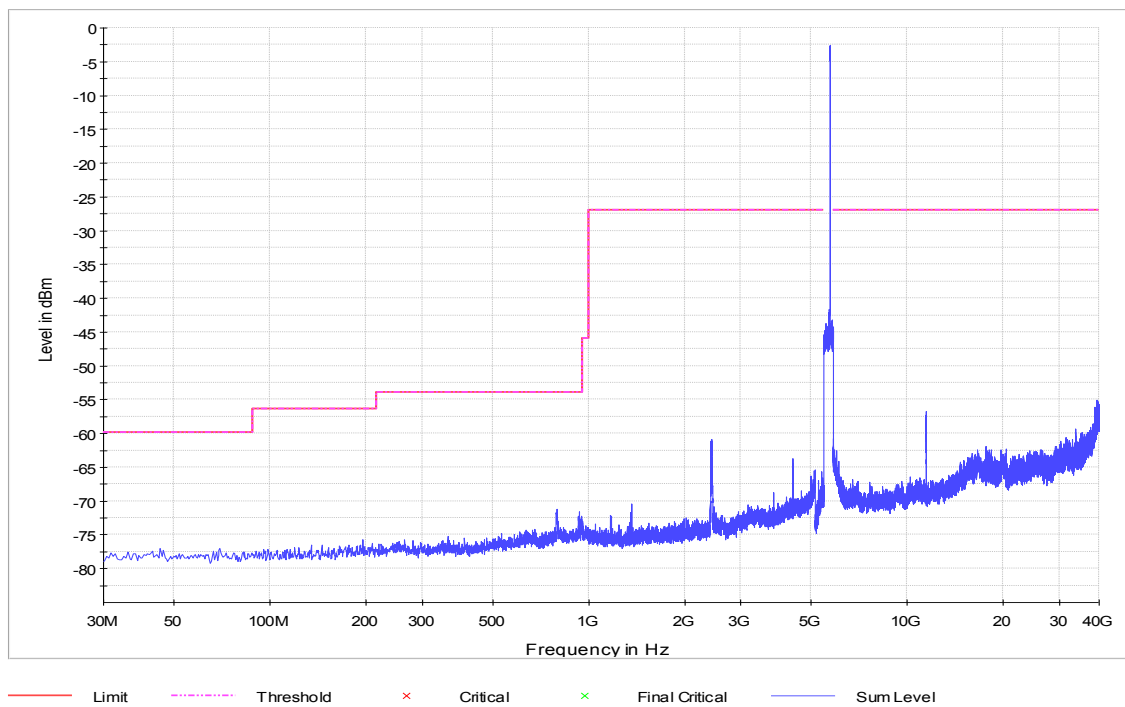
Plot 279: Mode 1, U-NII-2C, CSE, channel 140, 5700 MHz

Spurious



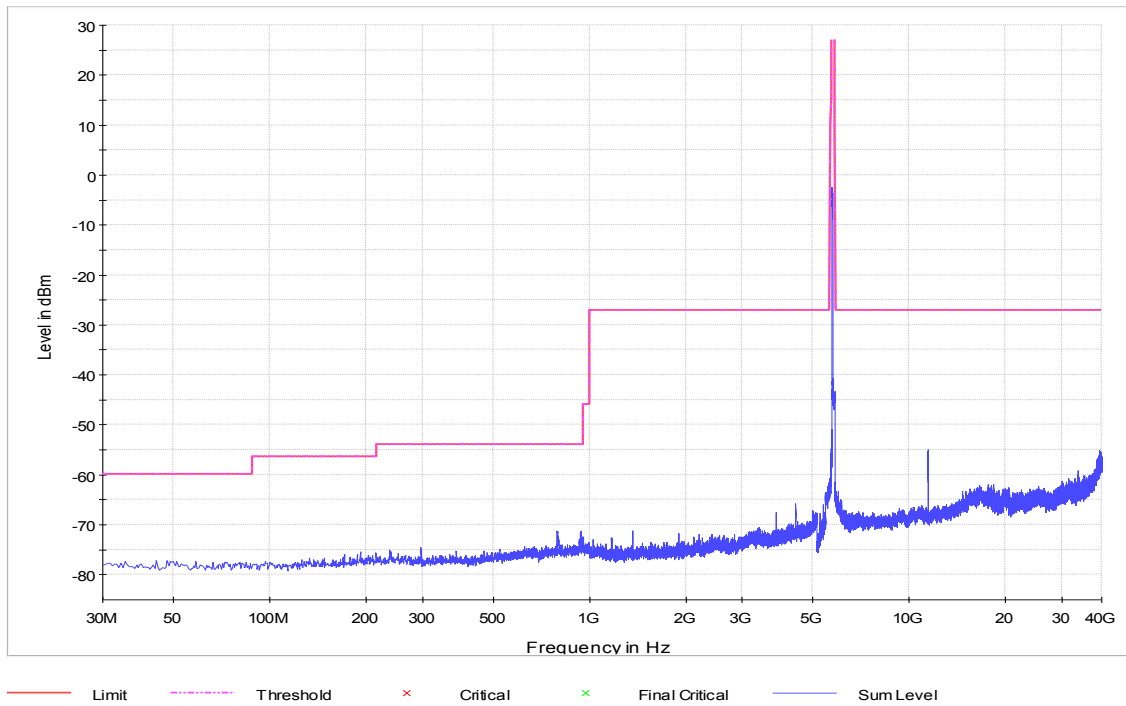
Plot 280: Mode 1, U-NII-2C, CSE, channel 144, 5720 MHz

Spurious



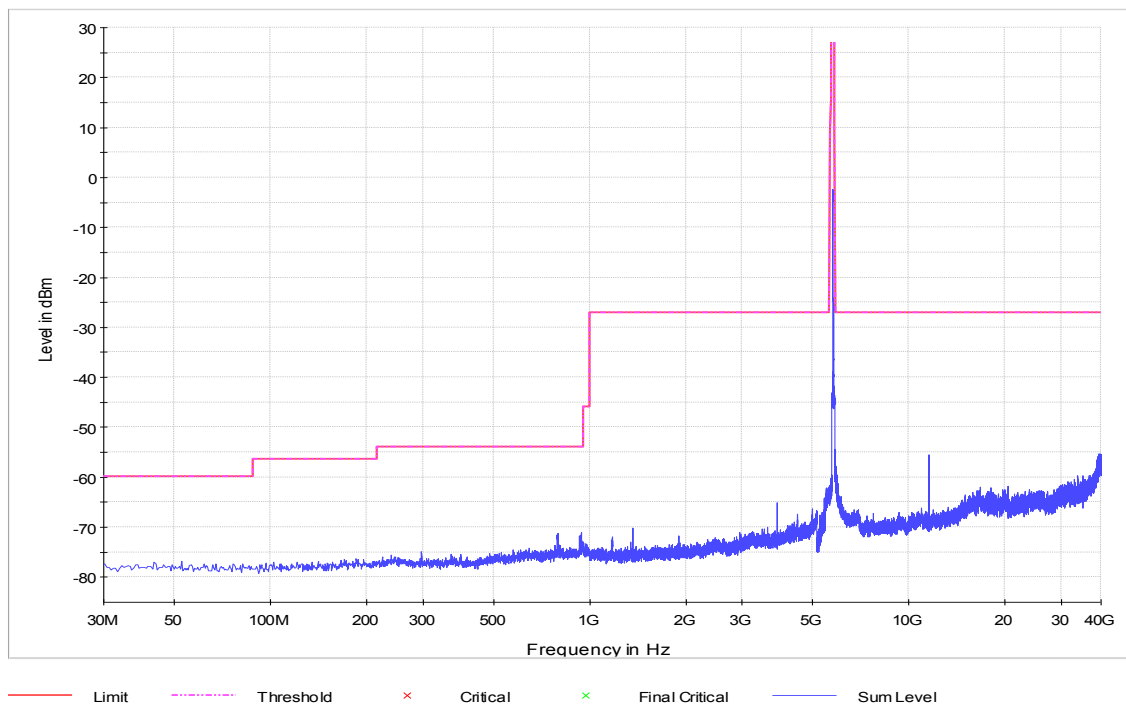
Plot 281: Mode 1, U-NII-3, CSE, channel 149, 5745 MHz

Spurious



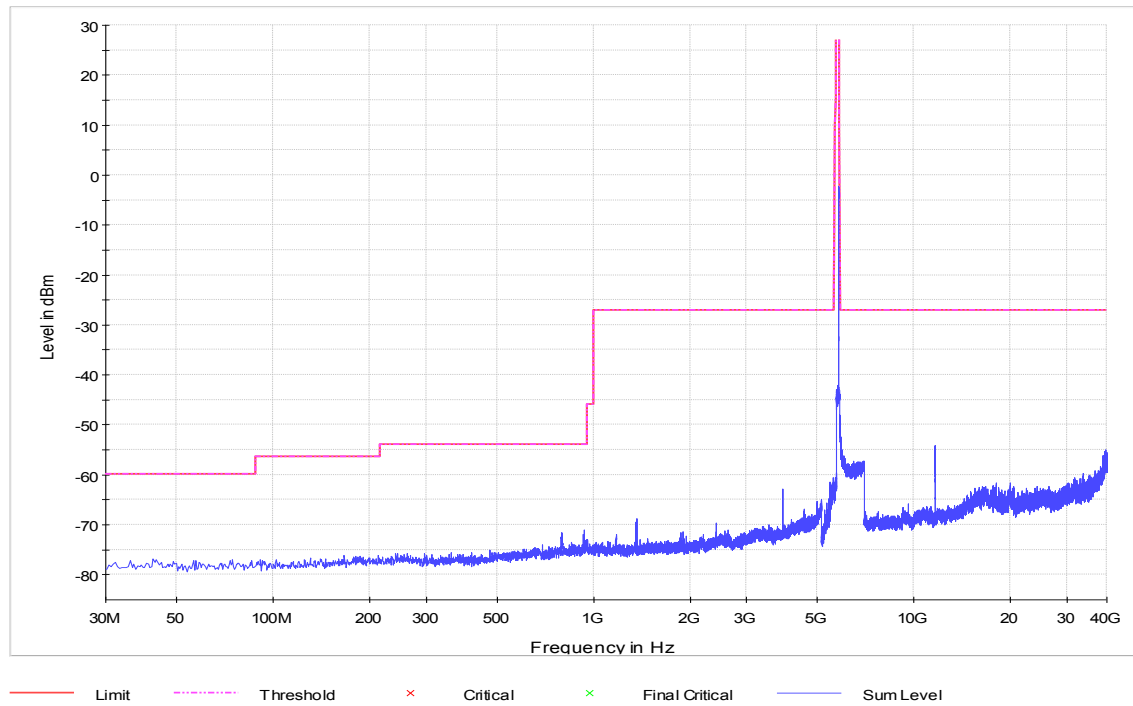
Plot 282: Mode 1, U-NII-3, CSE, channel 157, 5785 MHz

Spurious



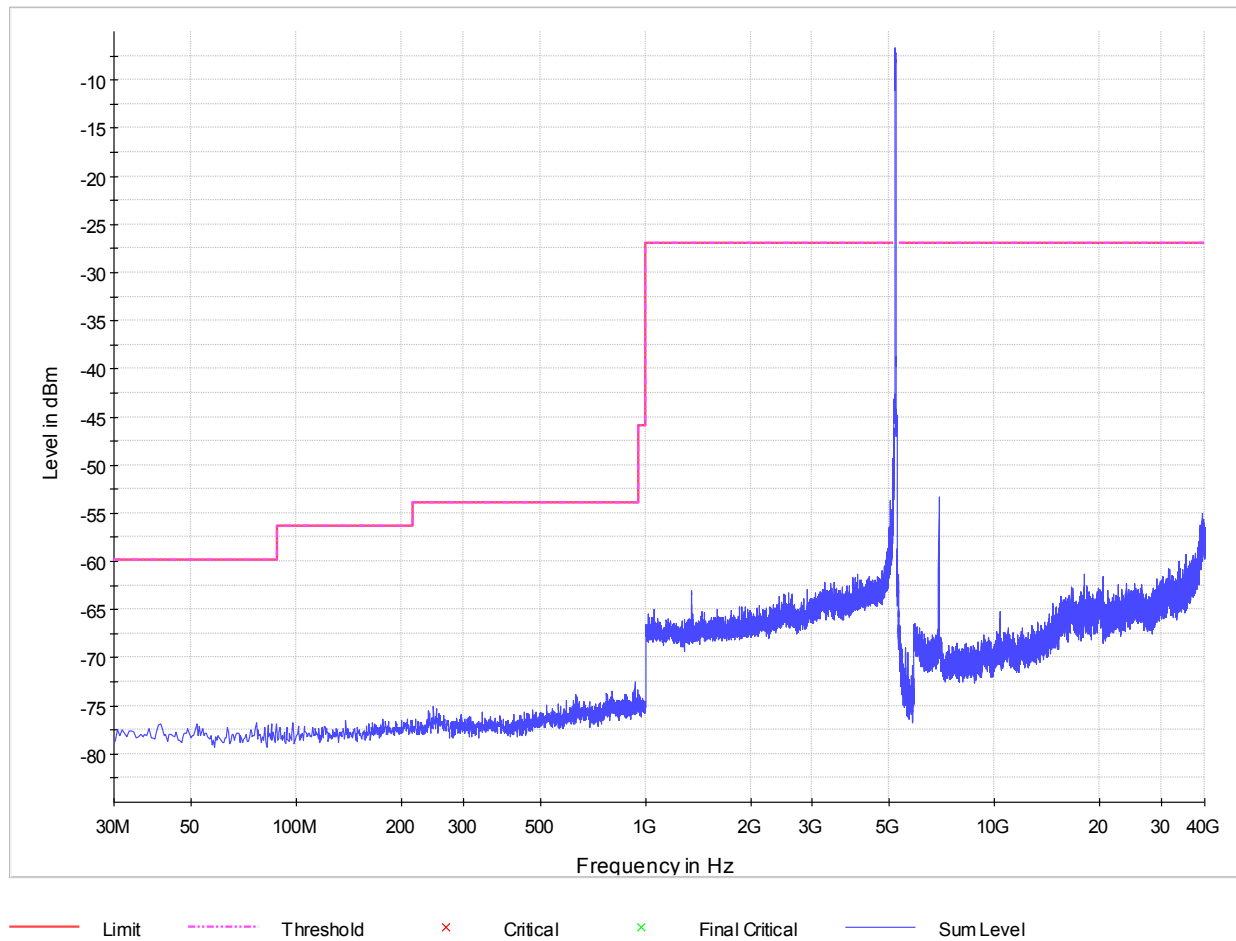
Plot 283: Mode 1, U-NII-3, CSE, channel 165, 5825 MHz

Spurious



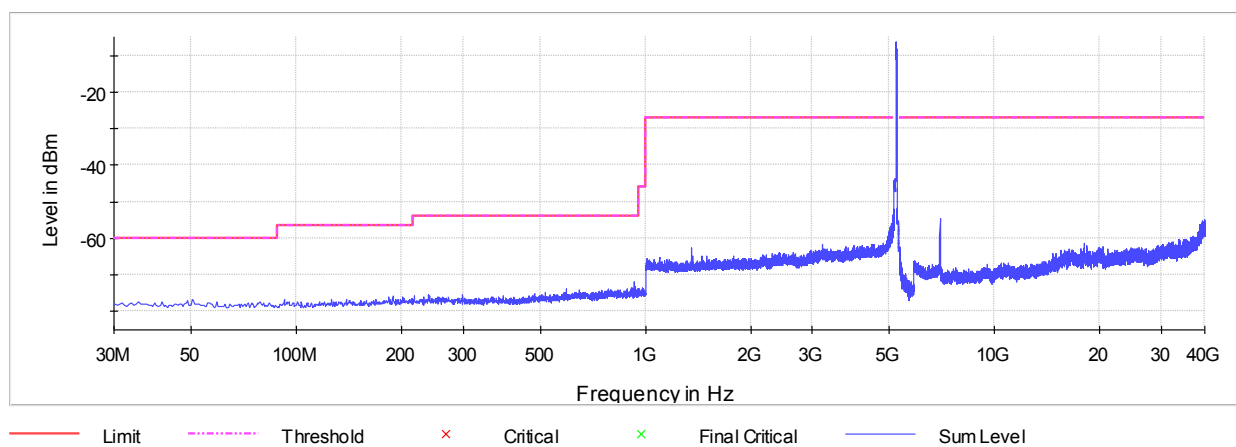
Plot 284: Mode 3, U-NII-1, CSE, channel 38, 5190 MHz

Spurious

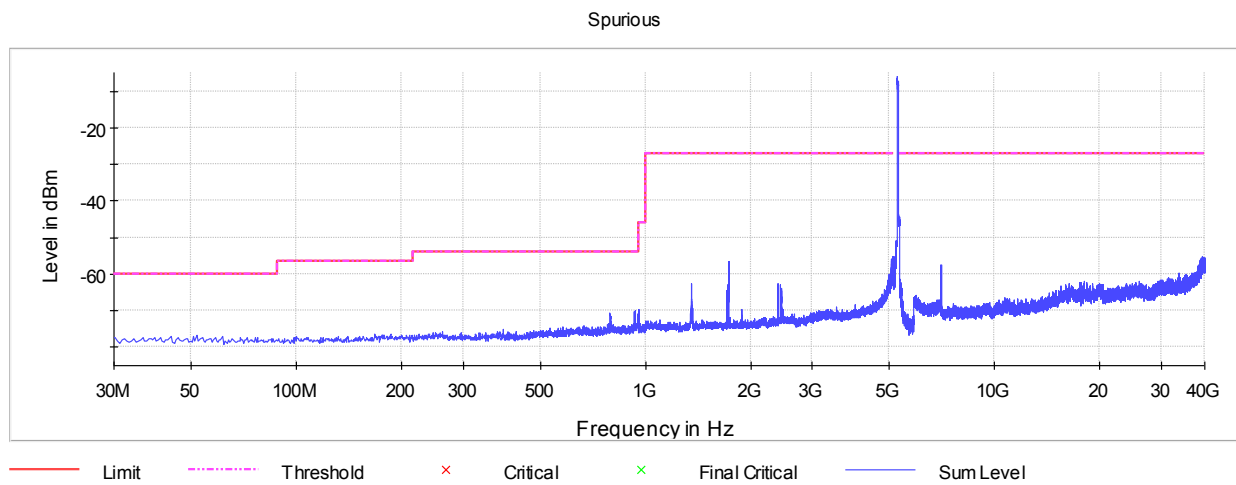


Plot 285: Mode 3, U-NII-1, CSE, channel 46, 5230 MHz

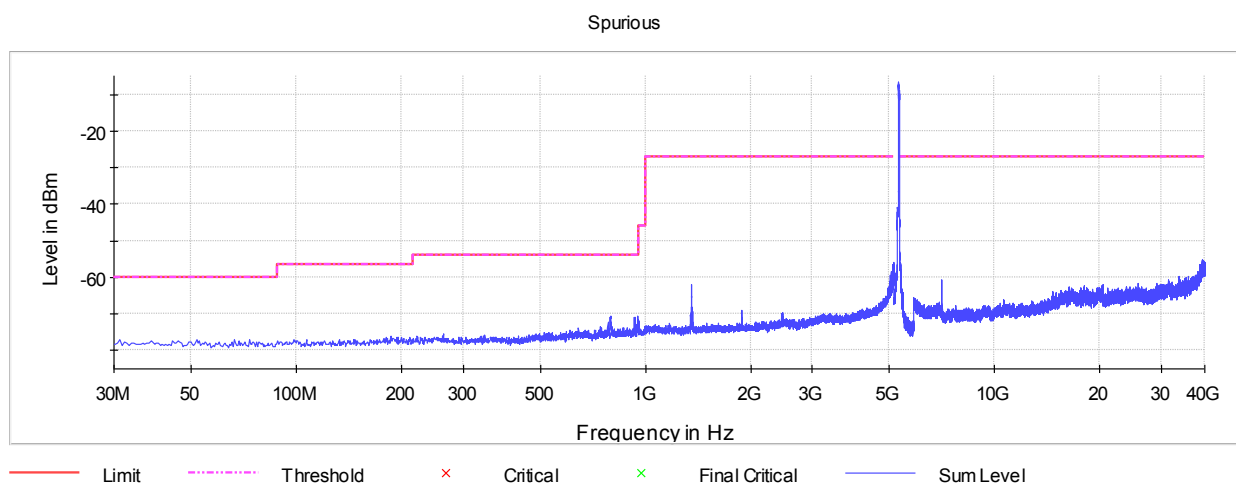
Spurious



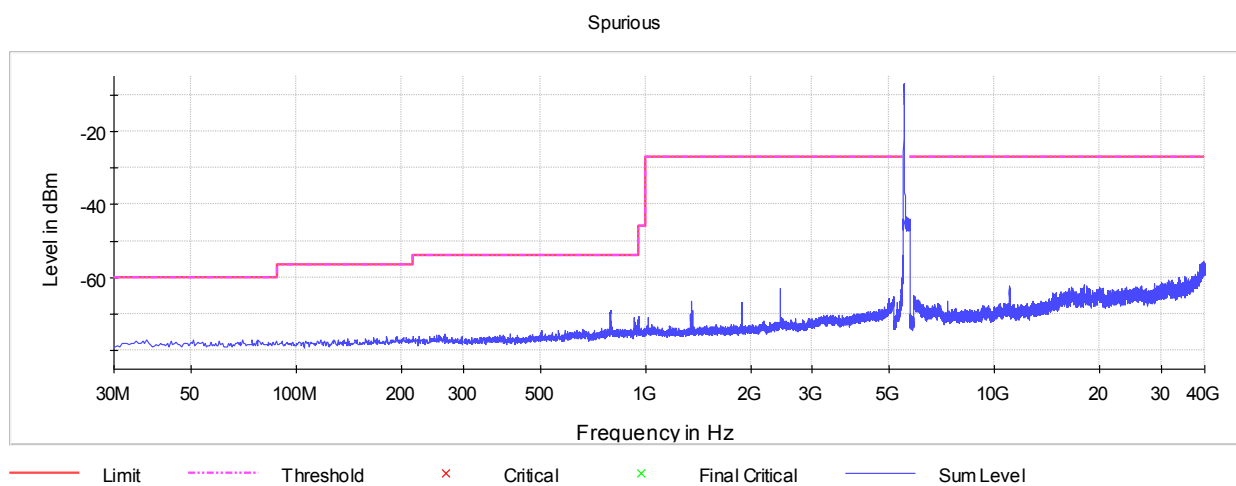
Plot 286: Mode 3, U-NII-2A, CSE, channel 54, 5270 MHz



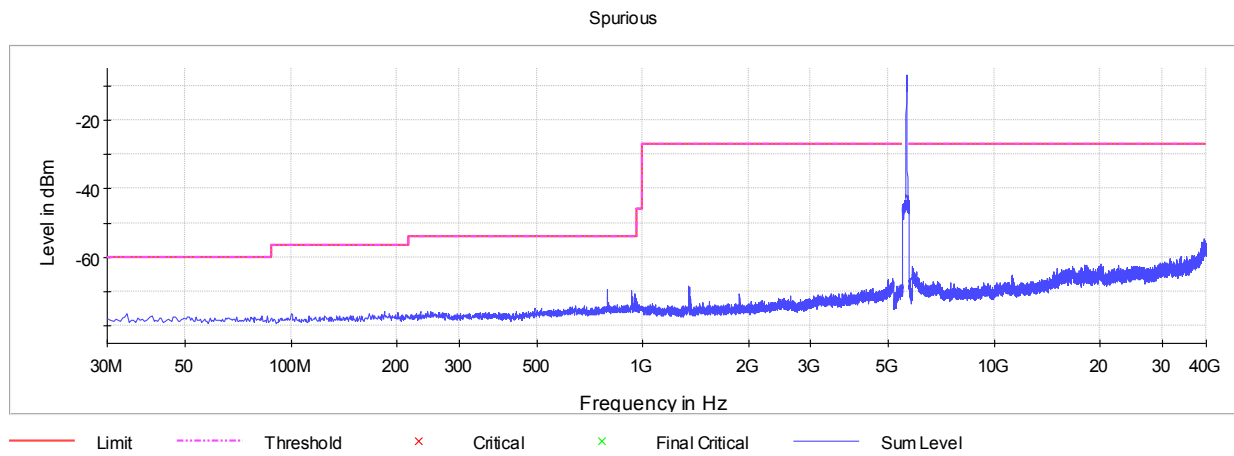
Plot 287: Mode 3, U-NII-2A, CSE, channel 62, 5.310 MHz



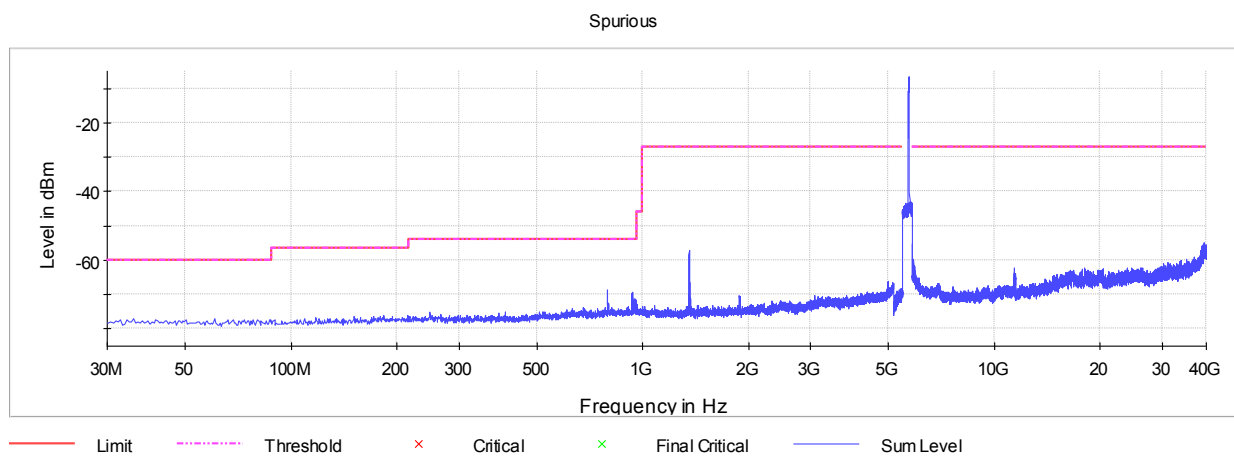
Plot 288: Mode 3, U-NII-2C, CSE, channel 102, 5510 MHz



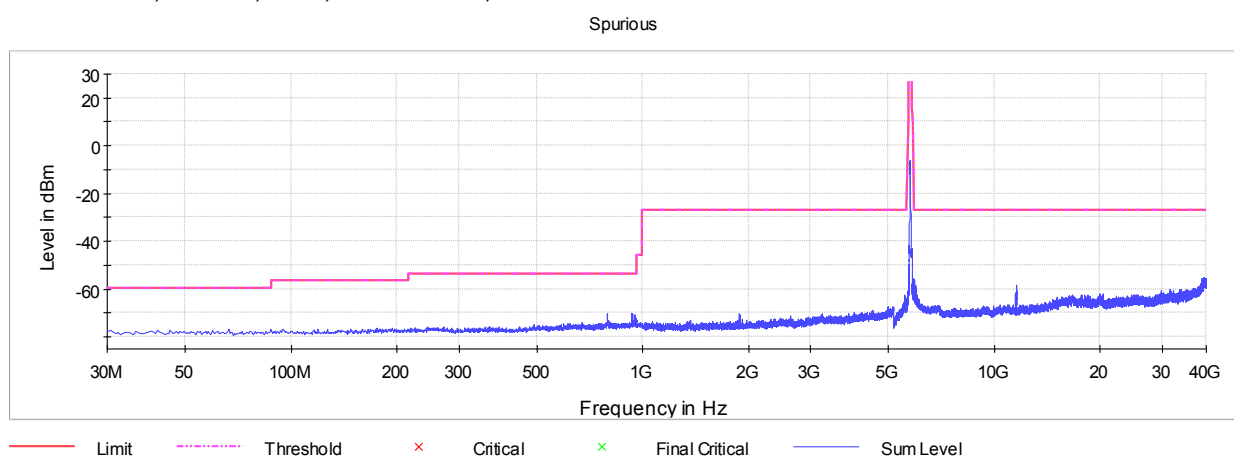
Plot 289: Mode 3, U-NII-2C, CSE, channel 126, 5630 MHz



Plot 290: Mode 3, U-NII-2C, CSE, channel 142, 5710 MHz

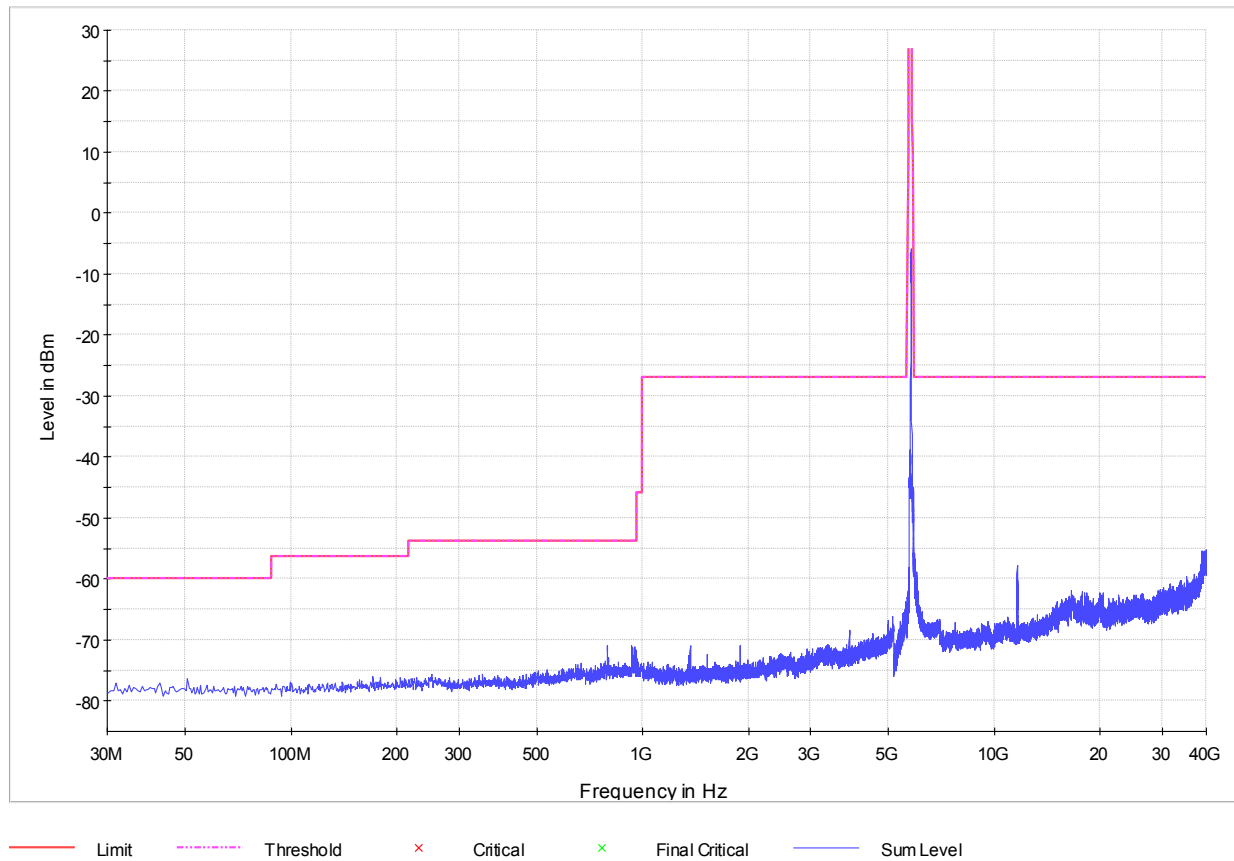


Plot 291: Mode 3, U-NII-3, CSE, channel 151, 5755 MHz



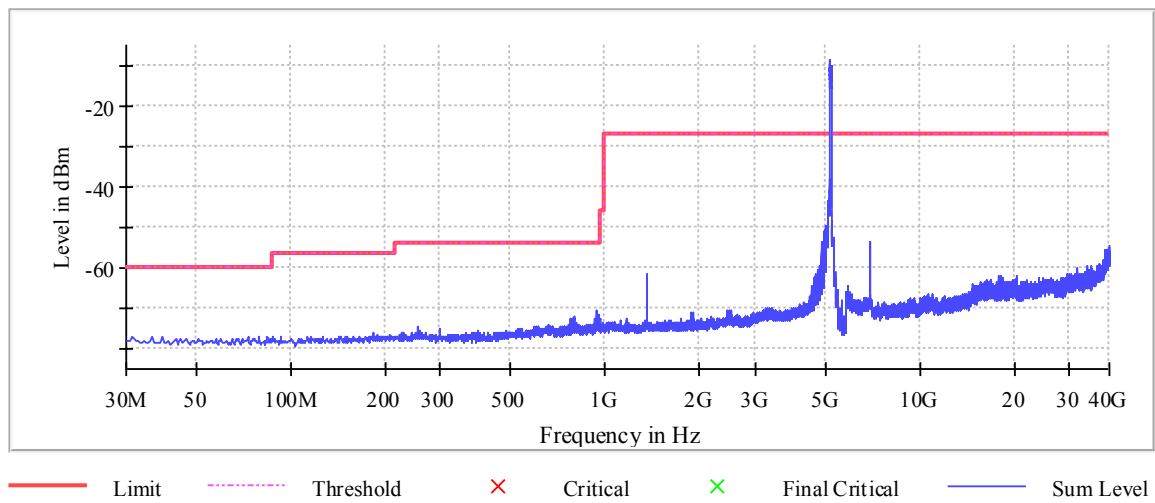
Plot 292: Mode 3, U-NII-3, CSE, channel 159, 5795 MHz

Spurious



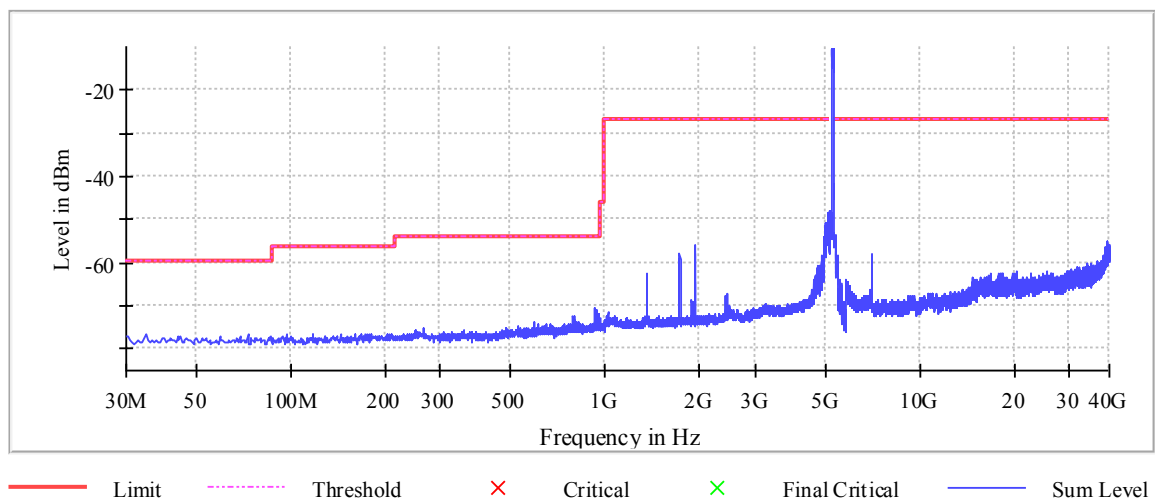
Plot 293: Mode 6, U-NII-1, CSE, channel 42, 5210 MHz

Spurious



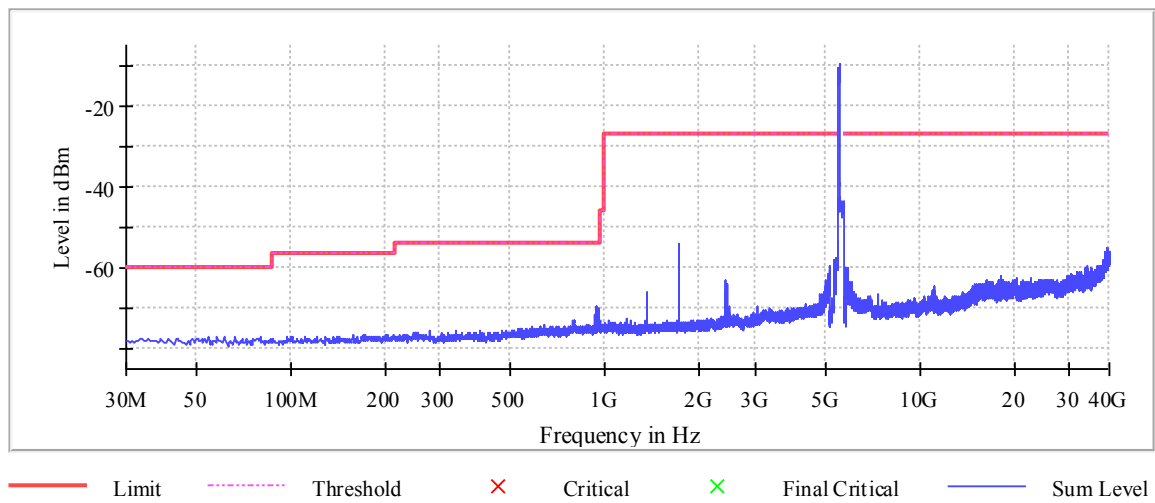
Plot 294: Mode 6, U-NII-2A, CSE, channel 58, 5290 MHz

Spurious



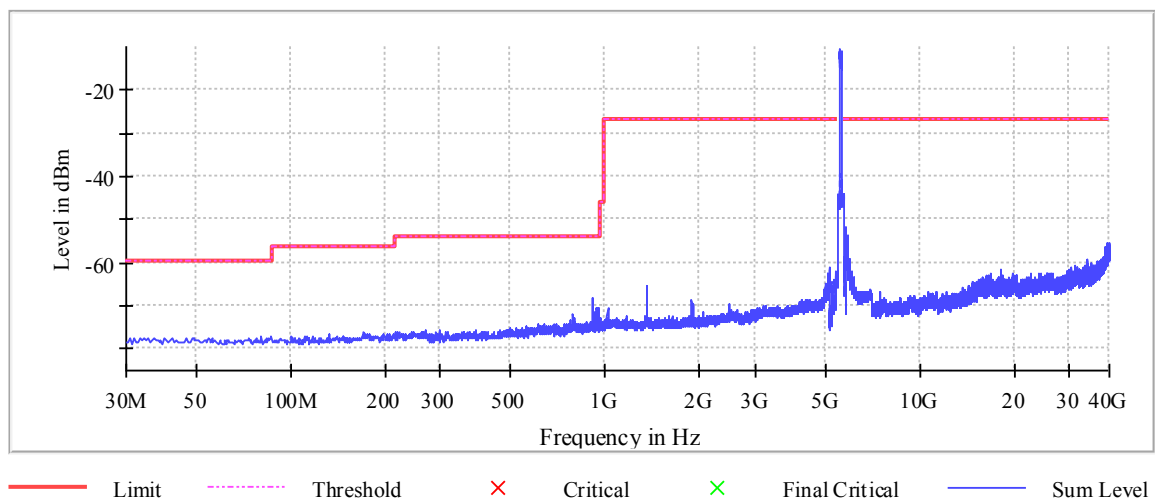
Plot 295: Mode 6, U-NII-2C, CSE, channel 106, 5530 MHz

Spurious



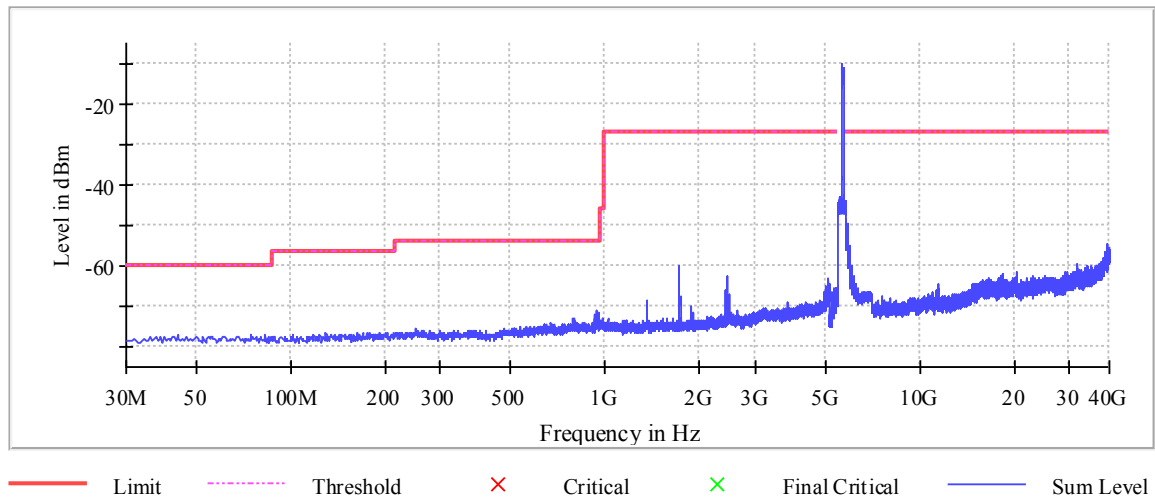
Plot 296: Mode 6, U-NII-2C, CSE, channel 122, 5610 MHz

Spurious



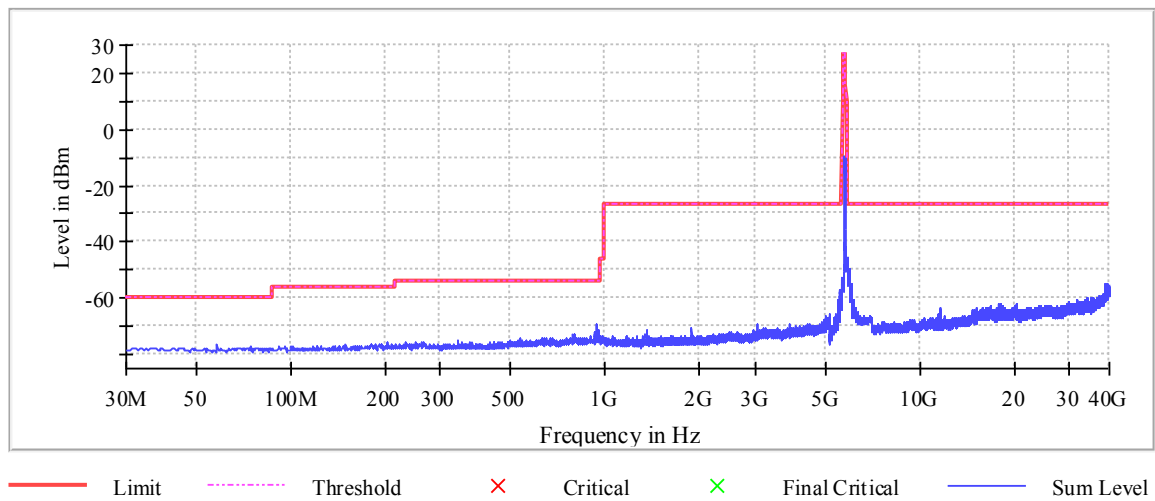
Plot 297: Mode 6, U-NII-2C, CSE, channel 138, 5690 MHz

Spurious



Plot 298: Mode 6, U-NII-3, CSE, channel 155, 5775 MHz

Spurious



7.10 Radiated Spurious Emissions (RSE)

Applicability

This requirement applies to unlicensed National Information Infrastructure (U-NII) devices operating in the 5.15–5.35 GHz, 5.47–5.725 GHz and 5.725–5.85 GHz bands.

Description

Spurious emission / unwanted emissions are emission on a frequency or frequencies which are outside the authorized band and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic emissions, parasitic emissions, intermodulation products and frequency conversion products. Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation.

Limits

§15.407(b)

All emissions out- side of the operational frequency band shall not exceed an e.i.r.p. of -27 dBm/MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Frequency [MHz]	Field Strength [μV/m] / [dBμV/m]	Measurement distance [m]
0.009 – 0.490	2400/F[kHz]	300
0.490 – 1.705	24000/F[kHz]	30
1.705 – 30.0	30.0 / 29.5	30
30 – 88	100 / 40.0	3
88 – 216	150 / 43.5	3
216 – 960	200 / 46.0	3
960 – 40 000	500 / 54.0	3

Note:

Measurements are performed as field strength measurement in dBμV. -27 dBm/MHz limit value corresponds to a limit of 67.9 dBμV measured in a distance of 3.

Test procedure

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Test setup: 8.1, 8.2, 8.3 with radiated test samples 61314 and 60338 (see section 5.2)

Test results: 20 MHz channels						
EUT Mode / Channel	Test sample serial number	Frequency [MHz]	Peak/RMS Detector	Level [dBm]	Limit [dBm]	Verdict
Mode 1 / channel 36	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 48	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 52	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 64	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 100	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 120	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 140	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 144	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 149	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 157	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 1 / channel 165	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -

* all detected peaks are more than 6 dB below the limit

Test results: 40 MHz channels						
EUT Mode / Channel	Test sample serial number	Frequency [MHz]	Peak/RMS Detector	Level [dBm]	Limit [dBm]	Verdict
Mode 3 / channel 38	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 46	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 54	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 62	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 102	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 126	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 142	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 151	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 3 / channel 159	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -

* all detected peaks are more than 6 dB below the limit

Test results: 80 MHz channels

EUT Mode / Channel	Test sample serial number	Frequency [MHz]	Peak/RMS Detector	Level [dBm]	Limit [dBm]	Verdict
Mode 6 / channel 42	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 58	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 106	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 122	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 138	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -
Mode 6 / channel 155	61314	see next plots	MaxPeak	see next plots*	see next plots	- passed -

* all detected peaks are more than 6 dB below the limit

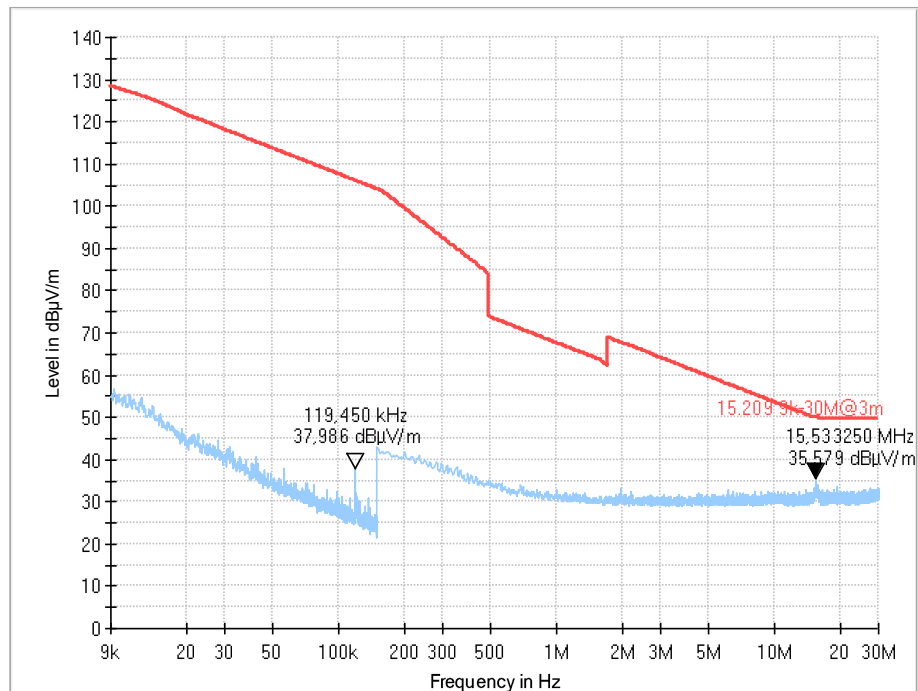
Comment:	Radiated Spurious Emissions (RSE) are performed for - mode 1 (20 MHz channel bandwidth), - mode 3 (40 MHz bandwidth), - mode 6 (80 MHz bandwidth) for low / mid / high channels.
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Verdict	- PASS -	<i>see next plots**</i>
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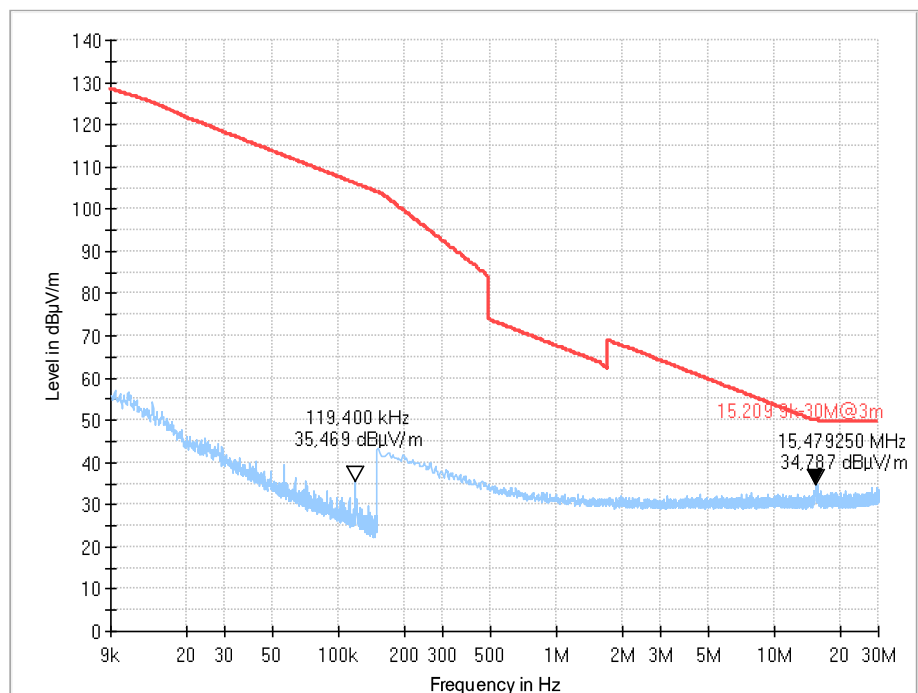
** description of line and marker for all radiated spurious emission (RSE) measurements:

-  positive Peak (Max Hold) trace during pre-scan
-  Max Peak value
-  final Quasi Peak value

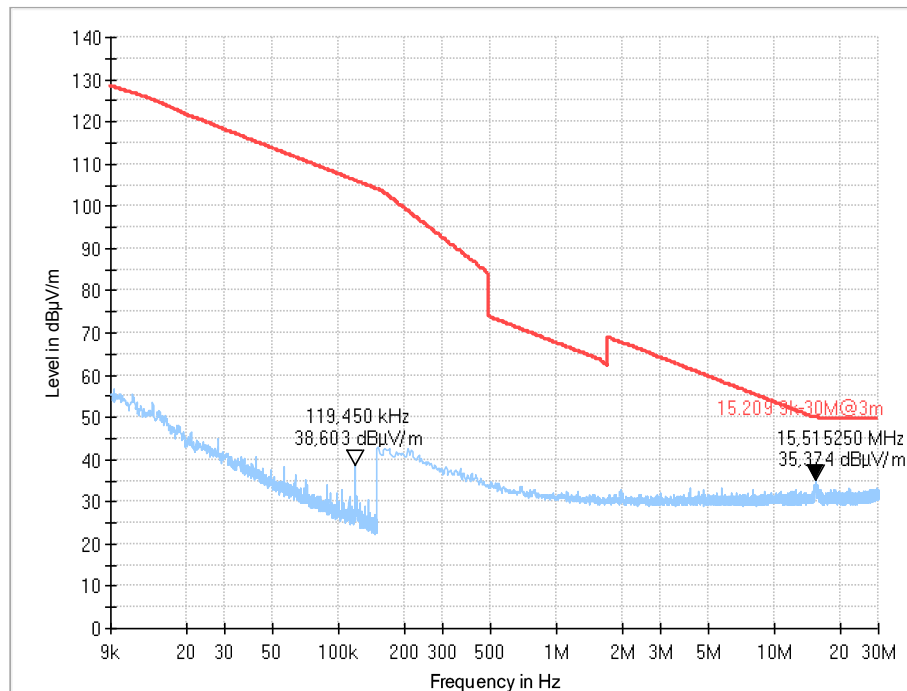
Plot 299: Mode 1, RSE 9 kHz – 30 MHz, channel 36, loop antenna (EUT laying)



Plot 300: Mode 1, RSE 9 kHz – 30 MHz, channel 36, loop antenna (EUT standing)



Plot 301: Mode 1, RSE 9 kHz – 30 MHz, channel 48, loop antenna (EUT laying)



Plot 302: Mode 1, RSE 9 kHz – 30 MHz, channel 48, loop antenna (EUT standing)

