

4.6 FREQUENCY STABILITY

4.6.1 Test Setup Required

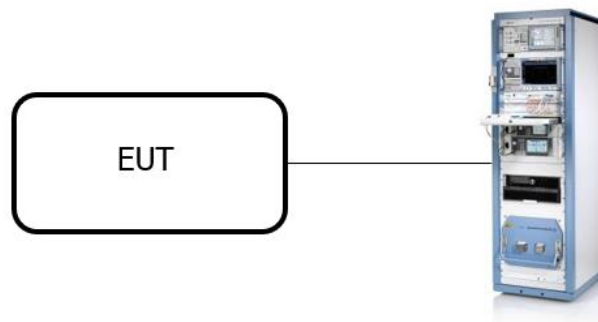


Fig. 188: Set-Up – Frequency Stability

4.6.2 Requirements

Section 15.407(g) specifies that U-NII devices are required to ensure frequency stability. It is required that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual. The grantee is responsible for ensuring that the EUT meets Section 15.407(g) requirements; however, the applications for equipment certification are not required to include test reports with explicit demonstration of compliance.

4.6.3 Summary Test Results

The customer provides documentation to the laboratory that ensures compliance with WiFi technology frequency stability.

4.7 BAND EDGE

4.7.1 Test Setup Required

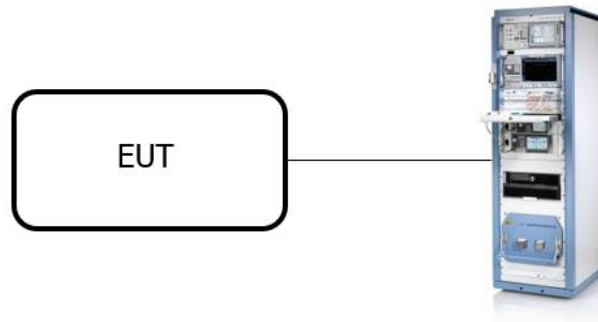


Fig. 189: Set-Up - Band Edge

4.7.2 Requirements

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.7.3 EMI Receiver configuration

During the conducted test, the EMI receiver was set with the following configuration:

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	200	Peak	Max Hold	1000	3000

Table 36: EMI Receiver configuration – U-NNI-1/ U-NII-2A - Low Band Edge – Measurement 1

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	650	Peak	Max Hold	1000	3000

Table 37: EMI Receiver configuration – U-NNI-1/ U-NII-2A - Low Band Edge – Measurement 2

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	200	Peak	Max Hold	1000	3000

Table 38: EMI Receiver configuration — U-NNI-1/ U-NII-2A - High Band Edge – Measurement 1

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	110	Peak	Max Hold	1000	3000

Table 39: EMI Receiver configuration — U-NNI-1/ U-NII-2A - High Band Edge – Measurement 2

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	255	Peak	Max Hold	1000	3000

Table 40: EMI Receiver configuration – U-NII-2C - Low Band Edge – Measurement 1

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	120	Peak	Max Hold	1000	3000

Table 41: EMI Receiver configuration – U-NII-2C - Low Band Edge – Measurement 2

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	255	Peak	Max Hold	1000	3000

Table 42: EMI Receiver configuration — U-NII-2C - High Band Edge – Measurement 1

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	1125	Peak	Max Hold	1000	3000

Table 43: EMI Receiver configuration — U-NII-2C - High Band Edge – Measurement 2

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	125	Peak	Max Hold	1000	3000

Table 44: EMI Receiver configuration – U-NII-3 - Low Band Edge – Measurement 1

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	375	Peak	Max Hold	1000	3000

Table 45: EMI Receiver configuration – U-NII-3 - Low Band Edge – Measurement 2

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	125	Peak	Max Hold	1000	3000

Table 46: EMI Receiver configuration — U-NII-3 - High Band Edge – Measurement 1

Central frequency [MHz]	Span [MHz]	Detector	Trace Mode	RBW [kHz]	VBW [kHz]
Channel frequency	1000	Peak	Max Hold	1000	3000

Table 47: EMI Receiver configuration — U-NII-3 - High Band Edge – Measurement 2

4.7.4 Test Environmental Conditions

Test Date	Technician	Supervisor	Temperature [°C]	Humidity [%]	Atm. Pressure [mbar]
17/01/2024	Javier M. Nadales	-	21.4	44.7	998.1
24/01/2024	Javier M. Nadales	-	22.1	47.2	998.6
25/01/2024	Javier M. Nadales	-	23.7	48.2	1004.3
26/01/2024	Javier M. Nadales	-	21.8	44.5	997.6
29/01/2024	Javier M. Nadales	-	22.1	46.3	1012.3
30/01/2024	Javier M. Nadales	-	22.7	48.1	1002.2

Table 48: Test environmental conditions – Band Edge

4.7.5 Summary Test Results

4.7.5.1 U-NII-1

Modulation	Operating Frequency [MHz]	Band Edge	Max Level [dBm]	Limit [dBm]	Results
Mode A20	5180	PK < Limit - I	-32.3	-27.0	PASS
	5240	PK < Limit - I	-40.5	-27.0	PASS
Mode N20	5180	PK < Limit - I	-30.1	-27.0	PASS
	5240	PK < Limit - I	-39.5	-27.0	PASS
Mode AC20	5180	PK < Limit - I	-33.2	-27.0	PASS
	5240	PK < Limit - I	-41.0	-27.0	PASS
Mode N40	5190	PK < Limit - I	-27.5	-27.0	PASS
	5230	PK < Limit - I	-42.5	-27.0	PASS
Mode AC40	5190	PK < Limit - I	-33.3	-27.0	PASS
	5230	PK < Limit - I	-43.1	-27.0	PASS
Mode AC80	5210	PK < Limit - I	-34.5	-27.0	PASS
		PK < Limit - I	-41.4	-27.0	PASS

Table 49: Summary Test Results – Band Edge

4.7.5.2 U-NII-2A

Modulation	Operating Frequency [MHz]	Band Edge	Max Level [dBm]	Limit [dBm]	Results
Mode A20	5260	PK < Limit - I	-40.8	-27.0	PASS
	5320	PK < Limit - I	-33.1	-27.0	PASS
Mode N20	5260	PK < Limit - I	-40.8	-27.0	PASS
	5320	PK < Limit - I	-33.4	-27.0	PASS
Mode AC20	5260	PK < Limit - I	-41.9	-27.0	PASS
	5320	PK < Limit - I	-43.2	-27.0	PASS
Mode N40	5270	PK < Limit - I	-39.0	-27.0	PASS
	5310	PK < Limit - I	-32.0	-27.0	PASS
Mode AC40	5270	PK < Limit - I	-40.3	-27.0	PASS
	5310	PK < Limit - I	-33.4	-27.0	PASS
Mode AC80	5290	PK < Limit - I	-42.4	-27.0	PASS
		PK < Limit - I	-35.0	-27.0	PASS

Table 50: Summary Test Results – Band Edge

4.7.5.3 U-NI-2C

Modulation	Operating Frequency [MHz]	Band Edge	Max Level [dBm]	Limit [dBm]	Results
Mode A20	5500	PK < Limit - I	-32.3	-27.0	PASS
	5700	PK < Limit - I	-32.5	-27.0	PASS
Mode N20	5500	PK < Limit - I	-31.7	-27.0	PASS
	5700	PK < Limit - I	-30.1	-27.0	PASS
Mode AC20	5500	PK < Limit - I	-33.1	-27.0	PASS
	5700	PK < Limit - I	-32.4	-27.0	PASS
Mode N40	5510	PK < Limit - I	-33.4	-27.0	PASS
	5670	PK < Limit - I	-32.2	-27.0	PASS
Mode AC40	5700	PK < Limit - I	-33.3	-27.0	PASS
	5510	PK < Limit - I	-37.3	-27.0	PASS
Mode AC80	5530	PK < Limit - I	-35.1	-27.0	PASS
	5610	PK < Limit - I	-41.4	-27.0	

Table 51: Summary Test Results – Band Edge

4.7.5.4 U-NI-3

Modulation	Operating Frequency [MHz]	Band Edge	Max Level [dBm]	Limit [dBm]	Results
Mode A20	5745	PK < Limit - I	-31.9	-27.0	PASS
	5825	PK < Limit - I	-32.4	-27.0	PASS
Mode N20	5745	PK < Limit - I	-27.6	-27.0	PASS
	5825	PK < Limit - I	-32.7	-27.0	PASS
Mode AC20	5745	PK < Limit - I	-27.4	-27.0	PASS
	5825	PK < Limit - I	-32.5	-27.0	PASS
Mode N40	5755	PK < Limit - I	-33.3	-27.0	PASS
	5795	PK < Limit - I	-41.7	-27.0	PASS
Mode AC40	5755	PK < Limit - I	-33.5	-27.0	PASS
	5795	PK < Limit - I	-42.3	-27.0	PASS
Mode AC80	5775	PK < Limit - I	-33.9	-27.0	PASS
		PK < Limit - I	-42.4	-27.0	

Table 52: Summary Test Results – Band Edge

4.7.6 Test Results

4.7.6.1 Sample #1. Mode #1. U-NI-1. Modulation A20

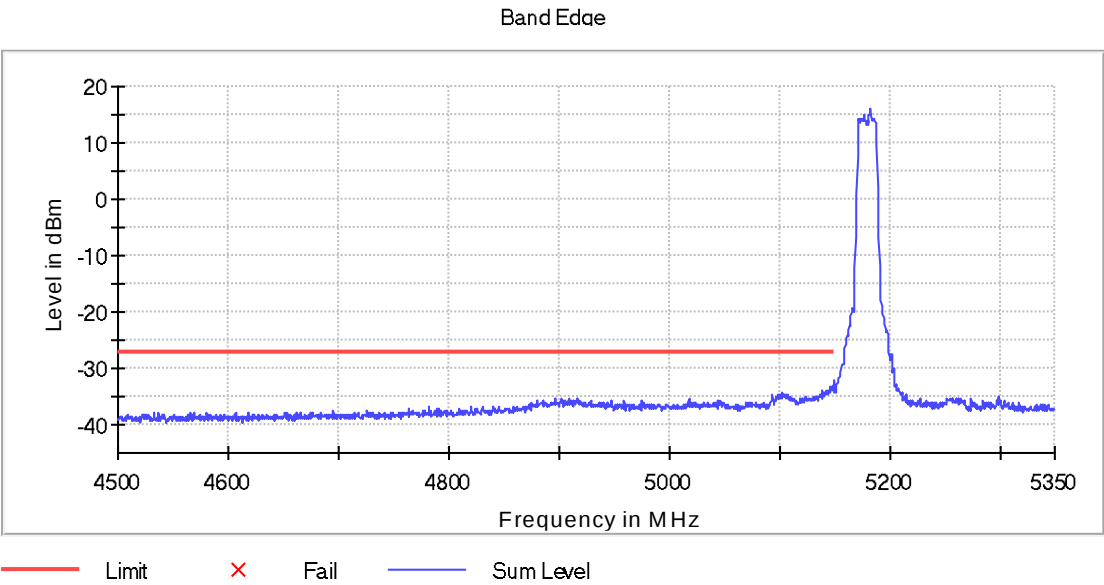


Fig. 190: Low Channel – Band Edge

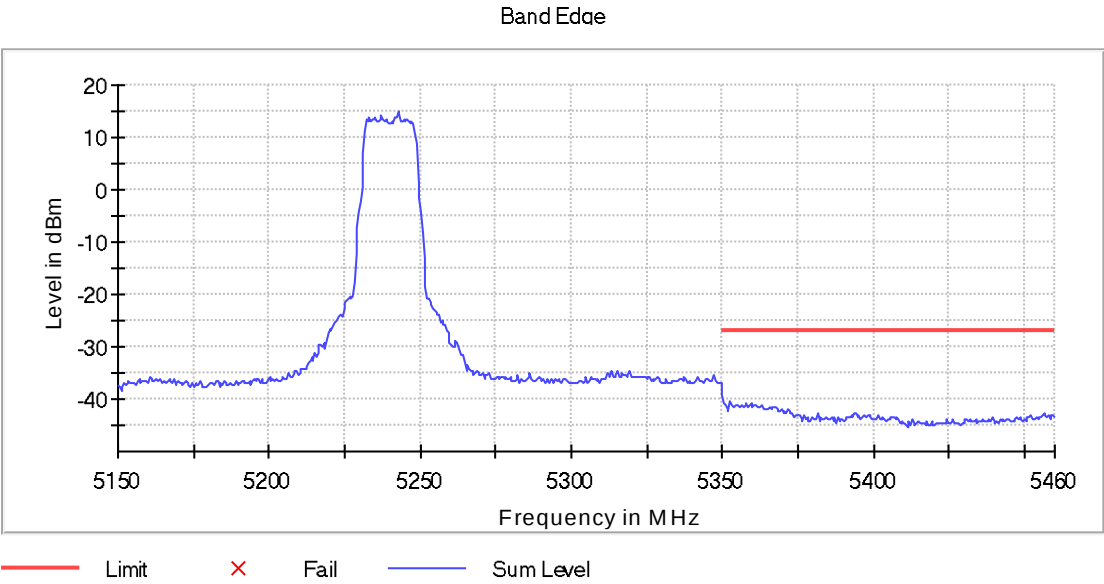


Fig. 191: High Channel – Band Edge

4.7.6.2 Sample #1. Mode #1. U-NII-1. Modulation N20

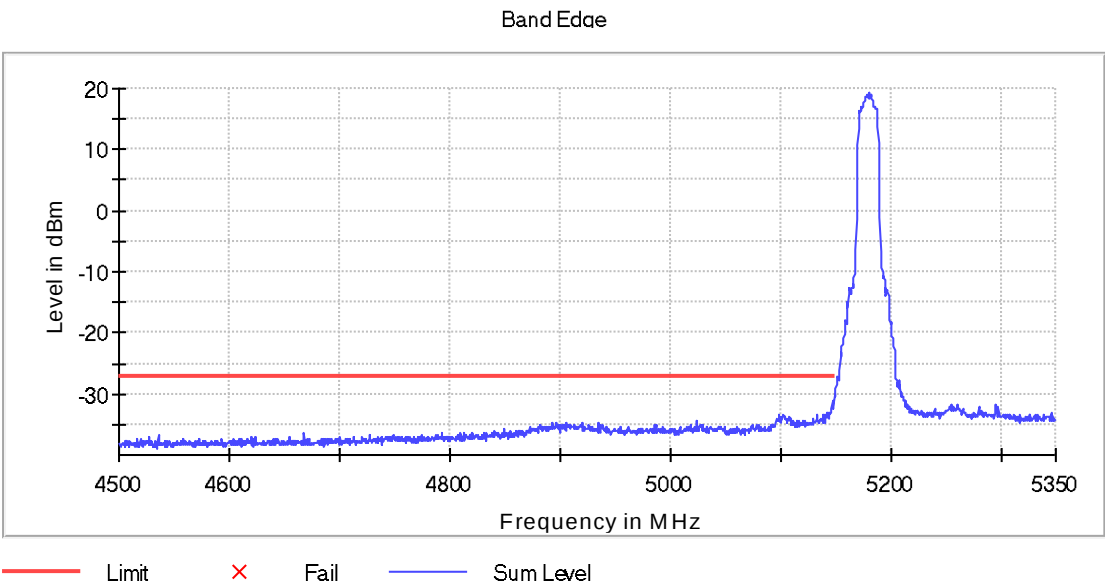


Fig. 192: Low Channel – Band Edge

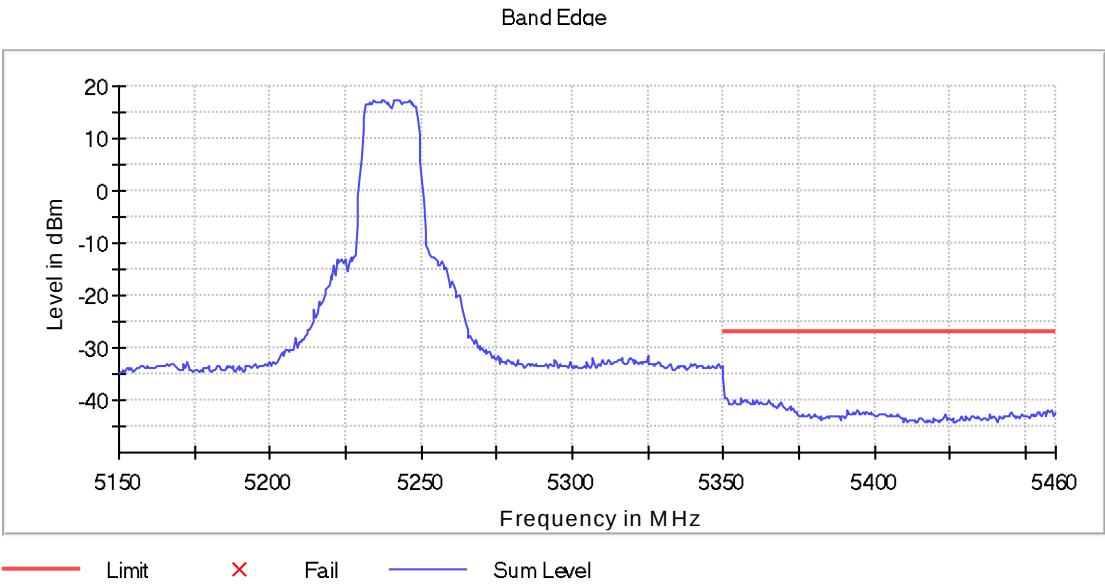


Fig. 193: High Channel – Band Edge

4.7.6.3 Sample #1. Mode #1. U-NI-1. Modulation AC20

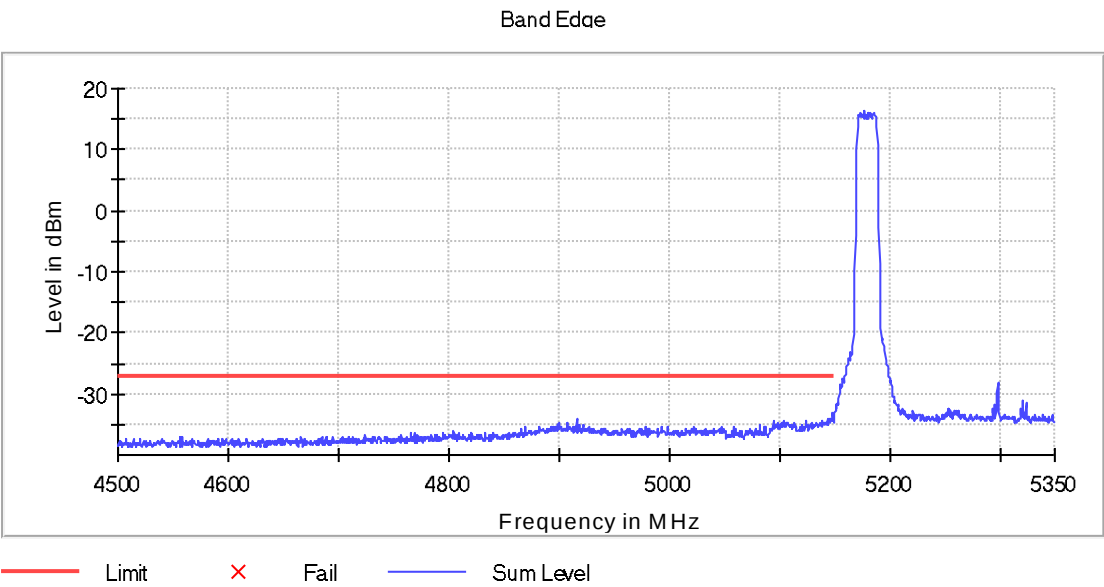


Fig. 194: Low Channel – Band Edge

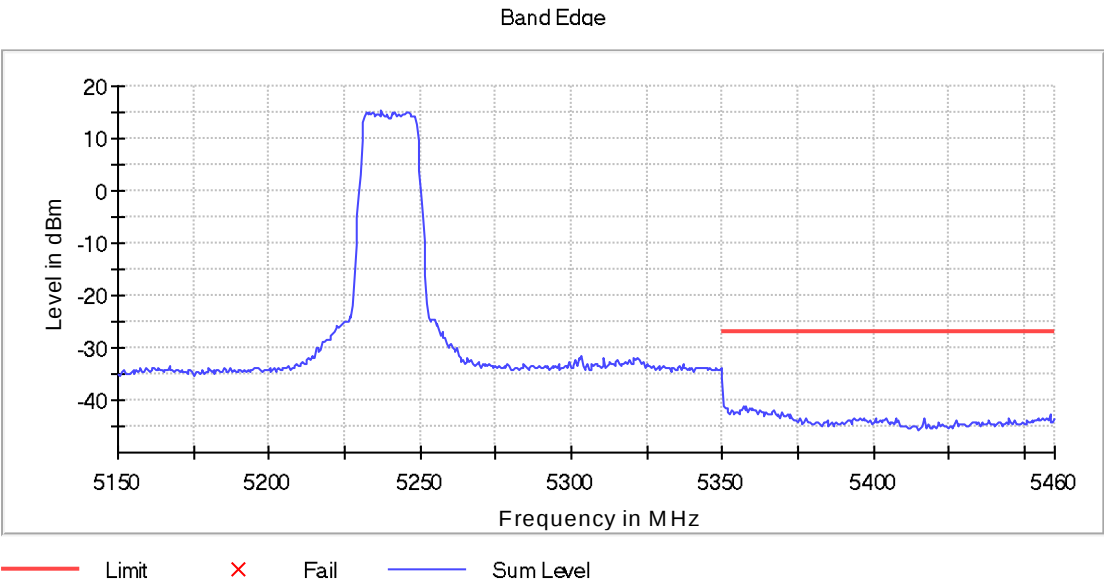


Fig. 195: High Channel – Band Edge

4.7.6.4 Sample #1. Mode #1. U-NII-1. Modulation N40

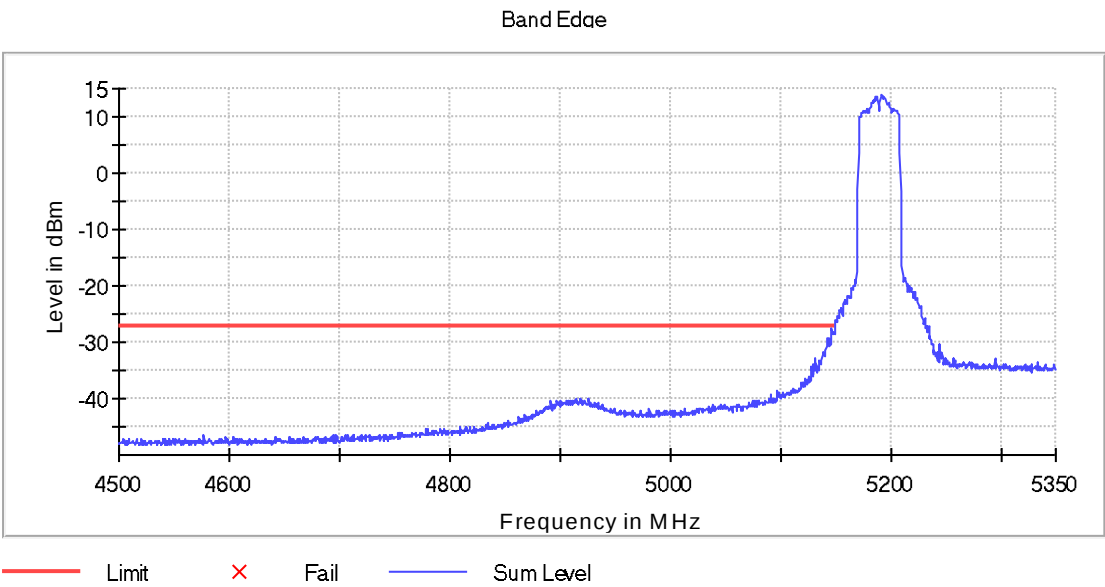


Fig. 196: Low Channel – Band Edge

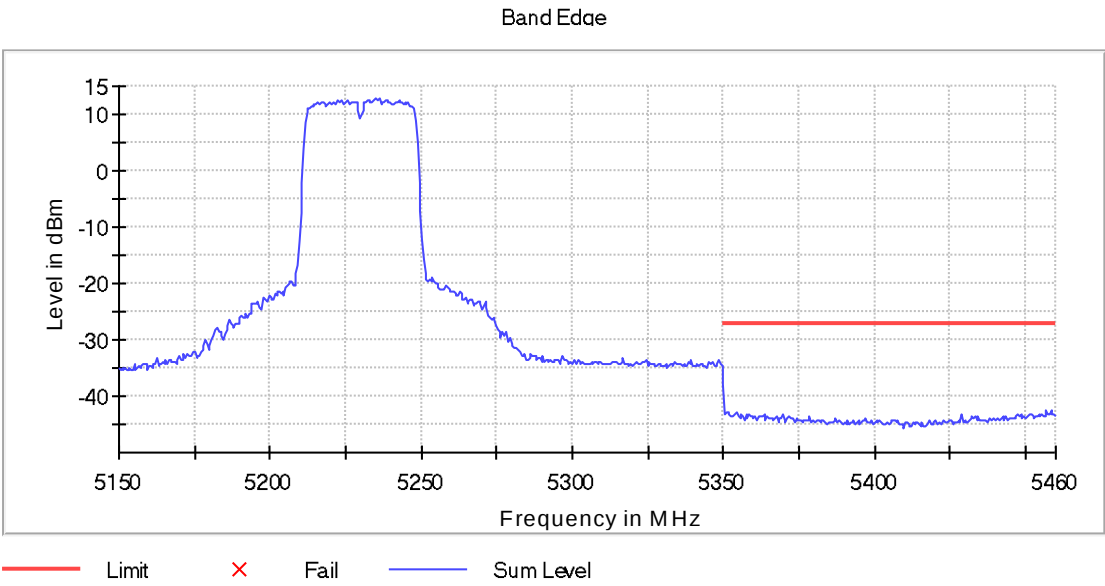


Fig. 197: High Channel – Band Edge

4.7.6.5 Sample #1. Mode #1. U-NII-1. Modulation AC40

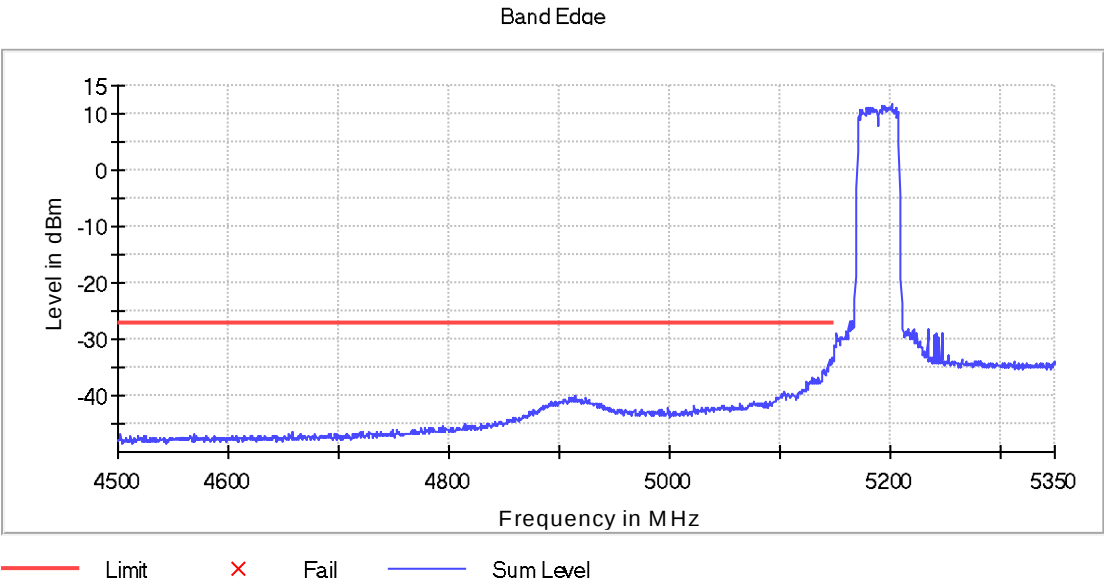


Fig. 198: Low Channel – Band Edge

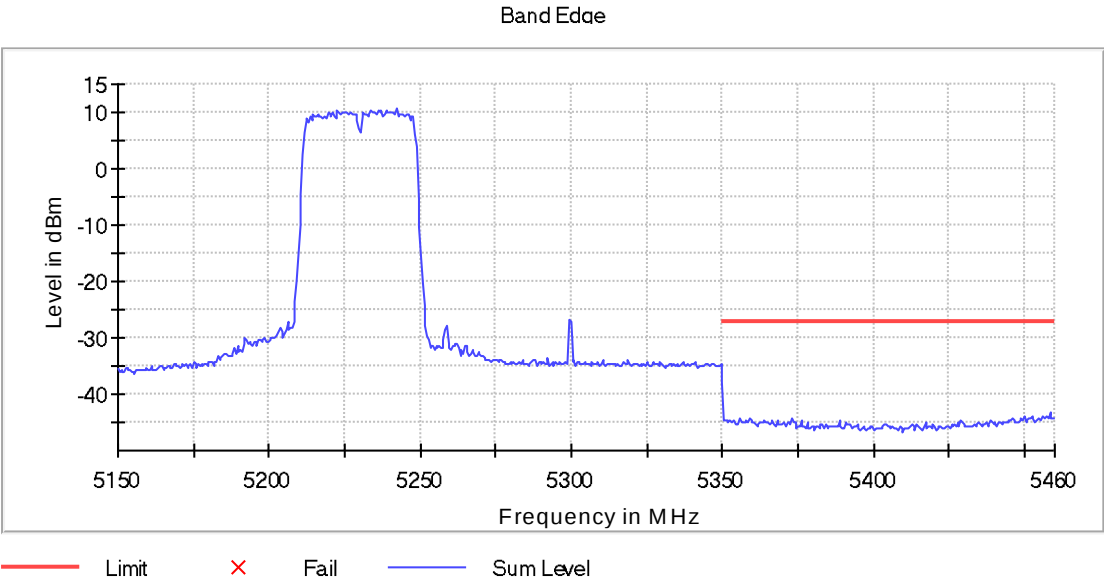


Fig. 199: High Channel – Band Edge

4.7.6.6 Sample #1. Mode #1. U-NII-1. Modulation AC80

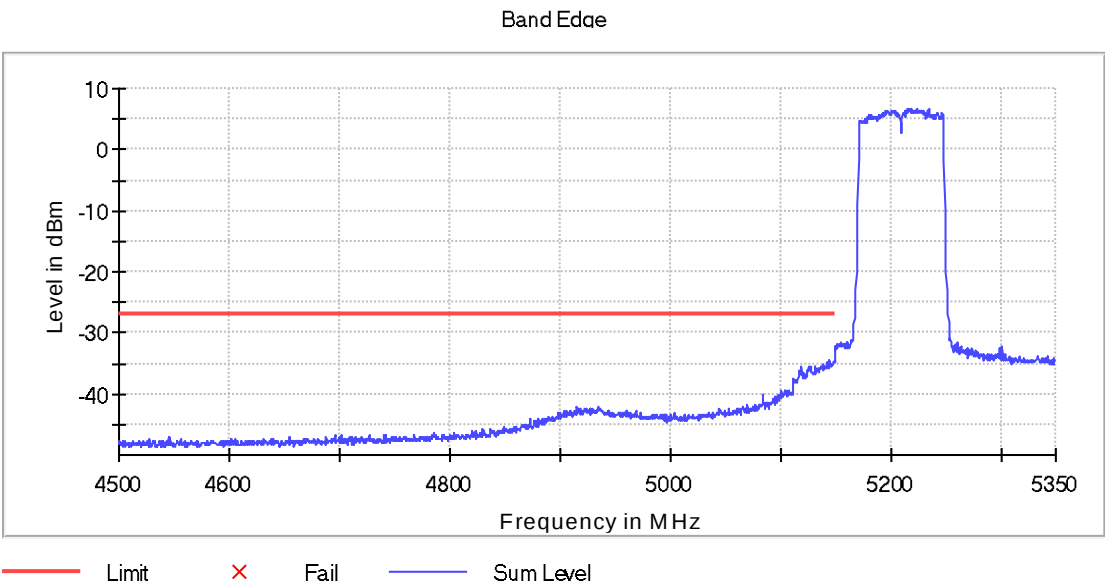


Fig. 200: Low Channel – Low Band Edge

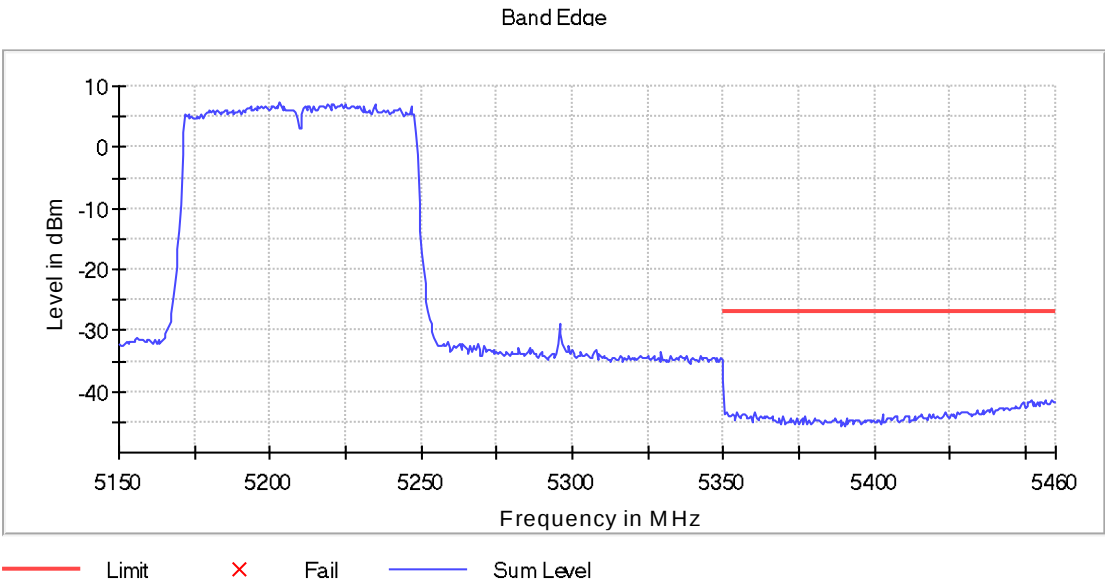


Fig. 201: Low Channel – High Band Edge

4.7.6.7 Sample #1. Mode #1. U-NII-2A. Modulation A20

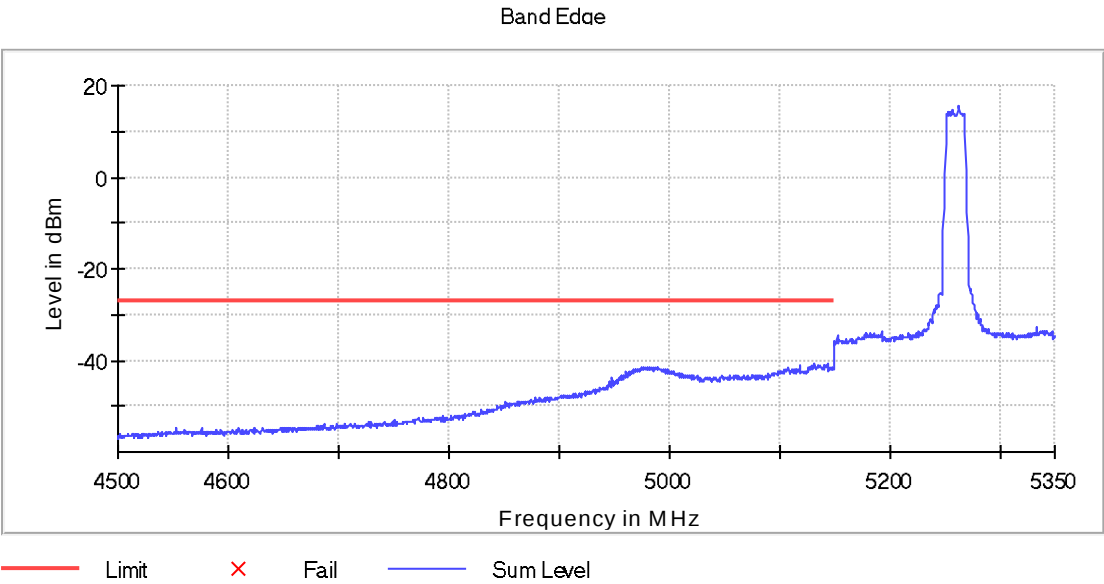


Fig. 202: Low Channel – Band Edge

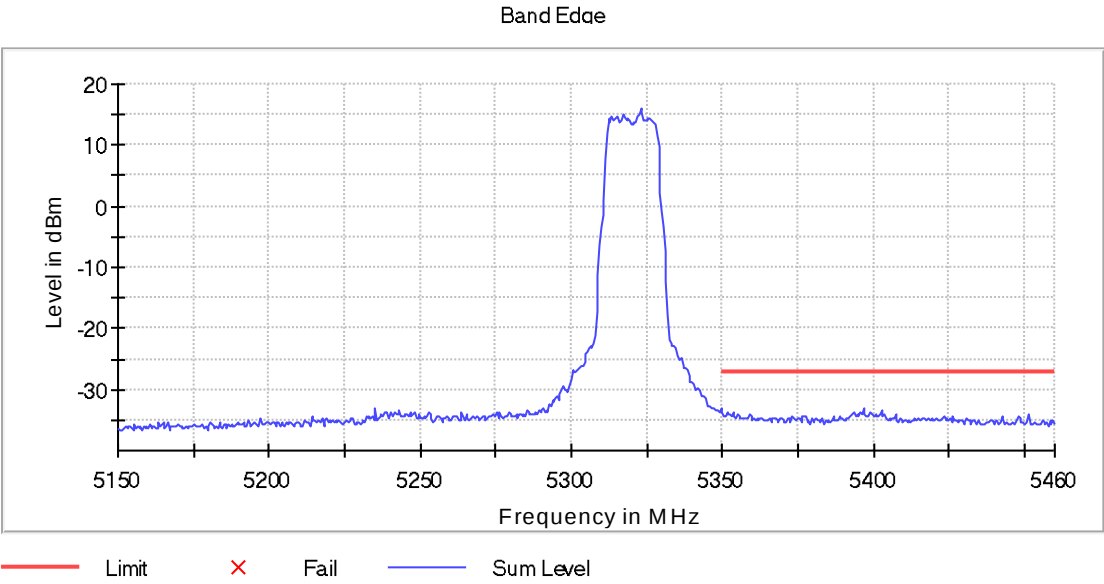


Fig. 203: High Channel – Band Edge

4.7.6.8 Sample #1. Mode #1. U-NII-2A. Modulation N20

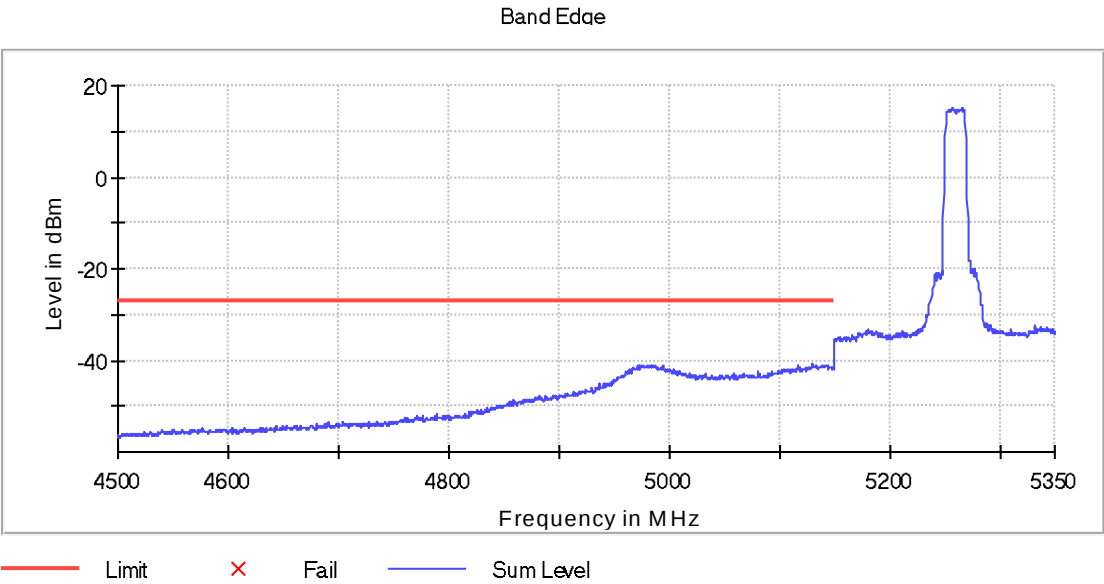


Fig. 204: Low Channel – Band Edge

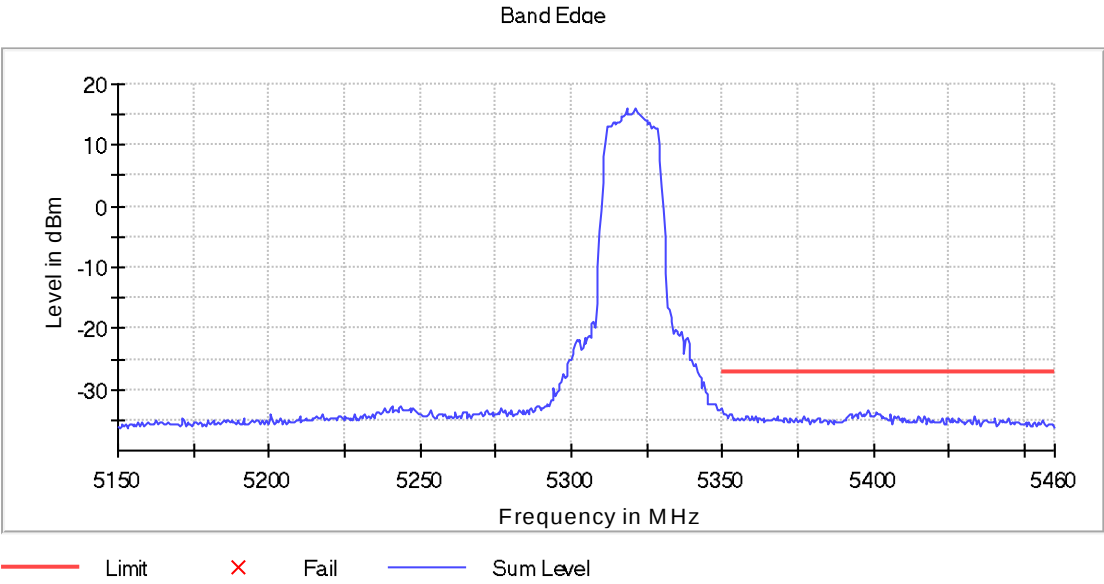


Fig. 205: High Channel – Band Edge

4.7.6.9 Sample #1. Mode #1. U-NII-2A. Modulation AC20

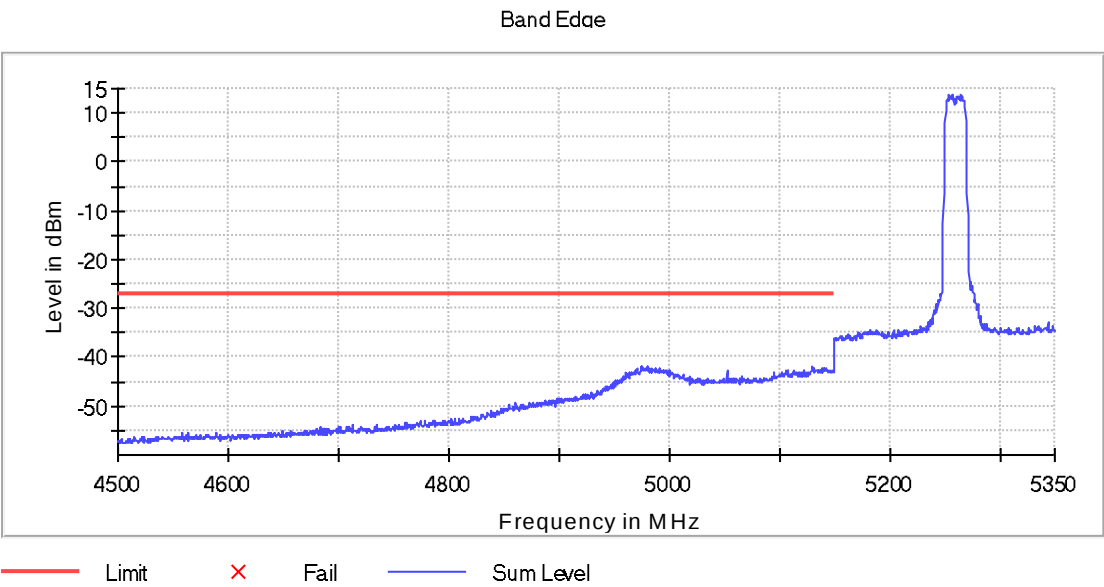


Fig. 206: Low Channel – Band Edge

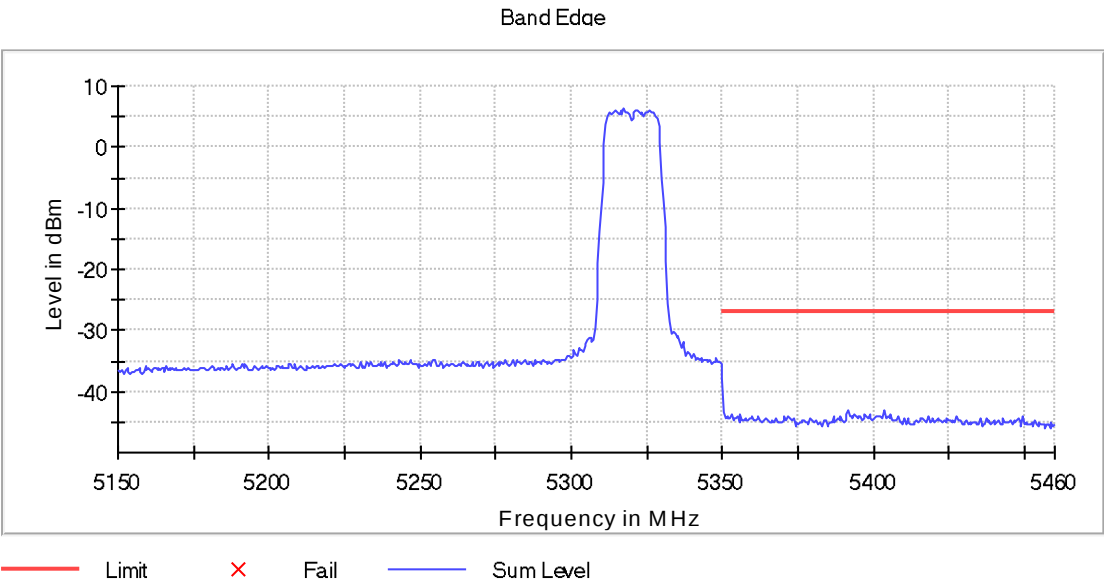


Fig. 207: High Channel – Band Edge

4.7.6.10 Sample #1. Mode #1. U-NII-2A. Modulation N40

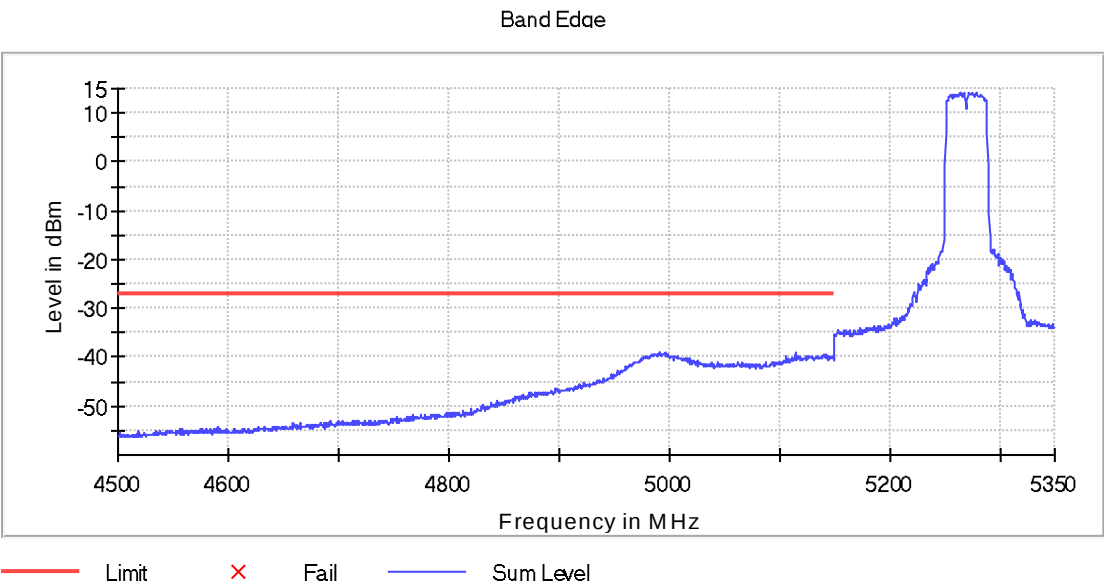


Fig. 208: Low Channel – Band Edge

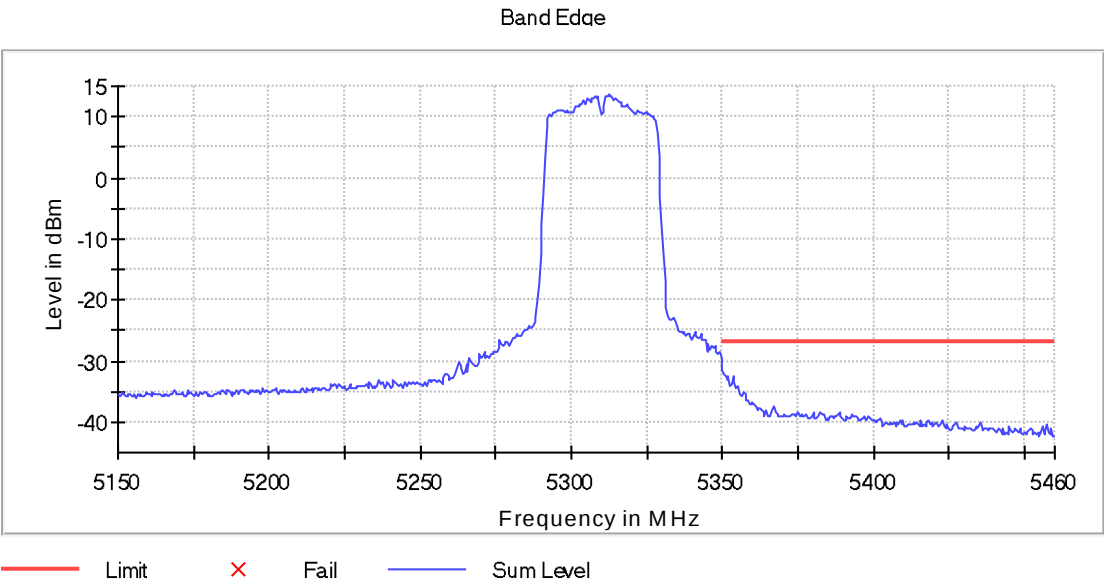


Fig. 209: High Channel – Band Edge

4.7.6.11 Sample #1. Mode #1. U-NII-2A. Modulation AC40

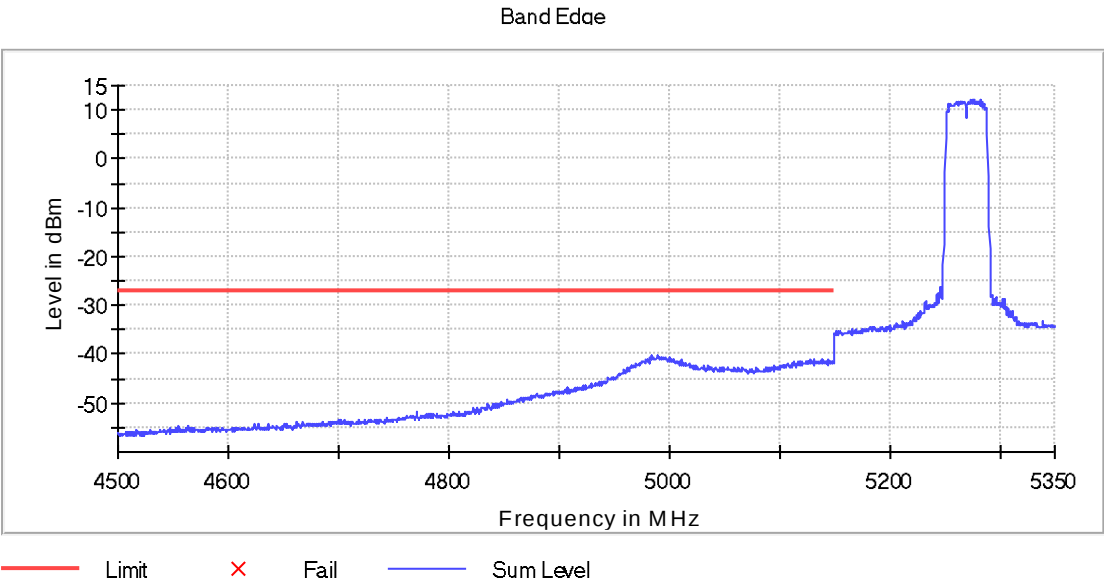


Fig. 210: Low Channel – Band Edge

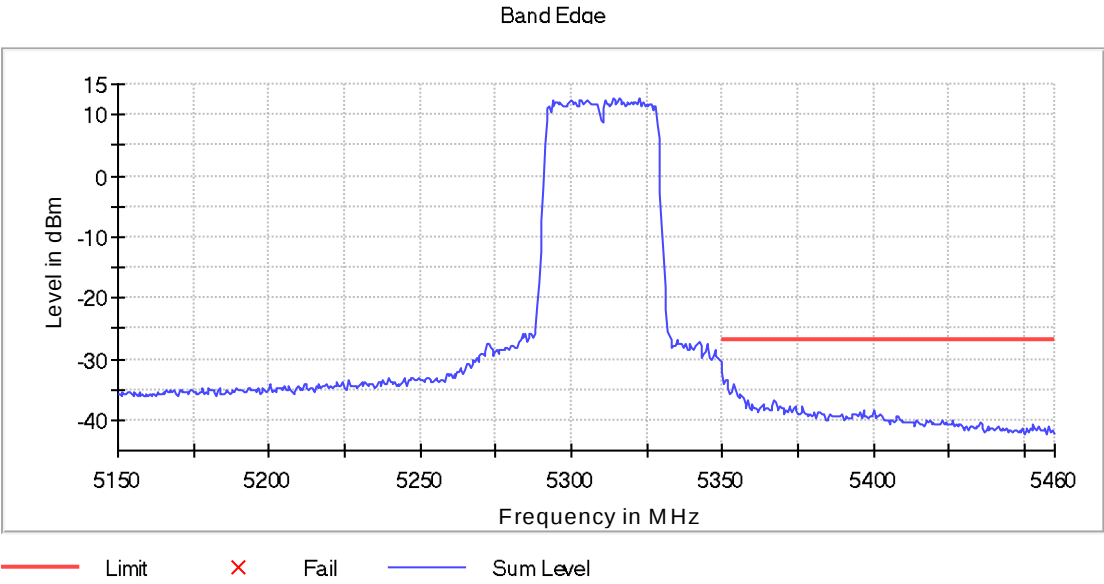


Fig. 211: High Channel – Band Edge

4.7.6.12 Sample #1. Mode #1. U-NII-2A. Modulation AC80

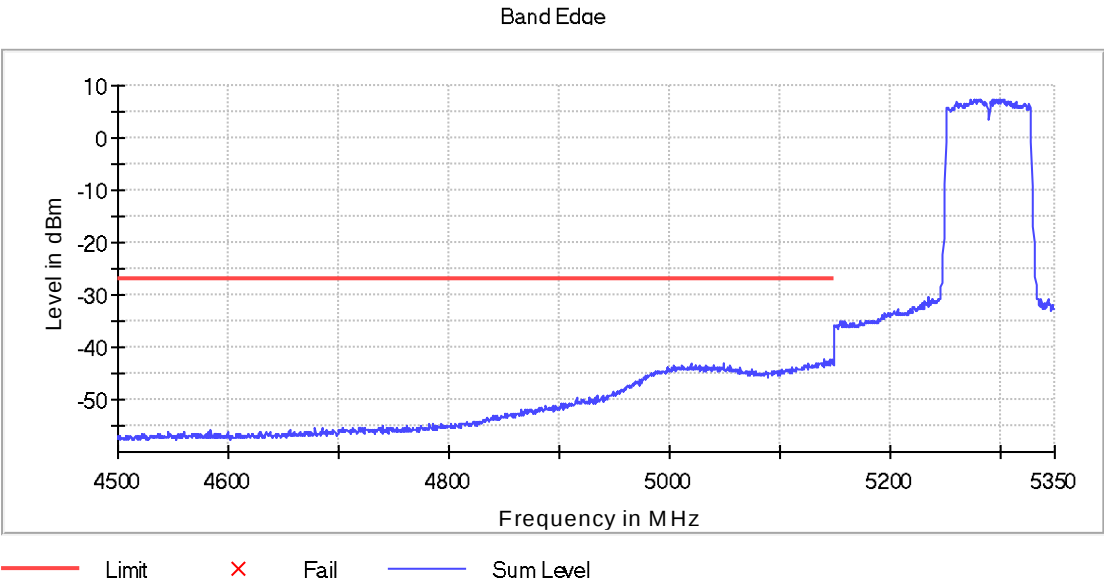


Fig. 212: Low Channel – Low Band Edge

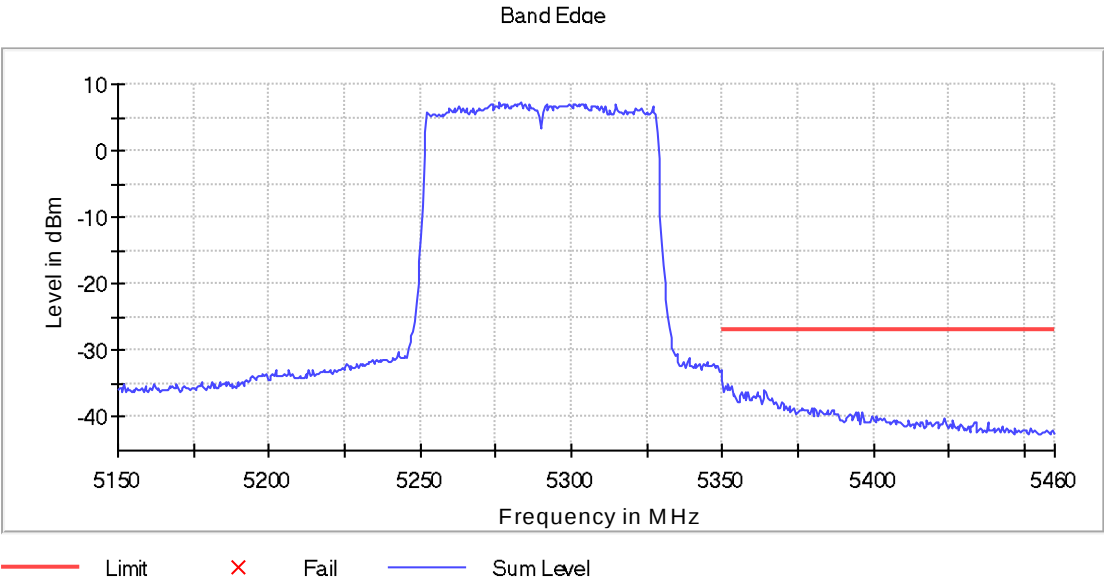


Fig. 213: Low Channel – High Band Edge

4.7.6.13 Sample #1. Mode #1. U-NII-2C. Modulation A20

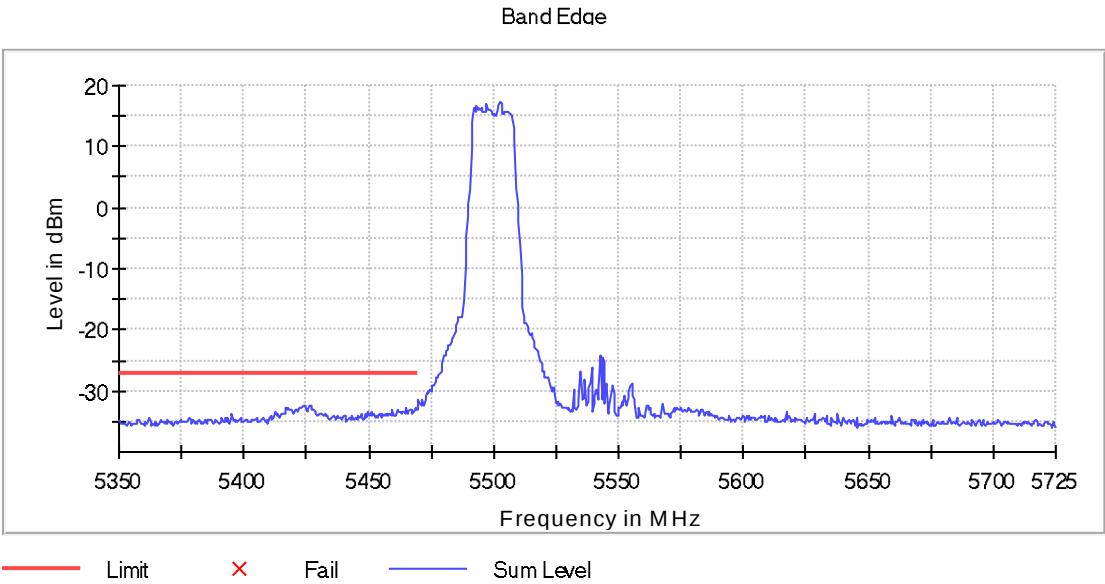


Fig. 214: Low Channel – Band Edge

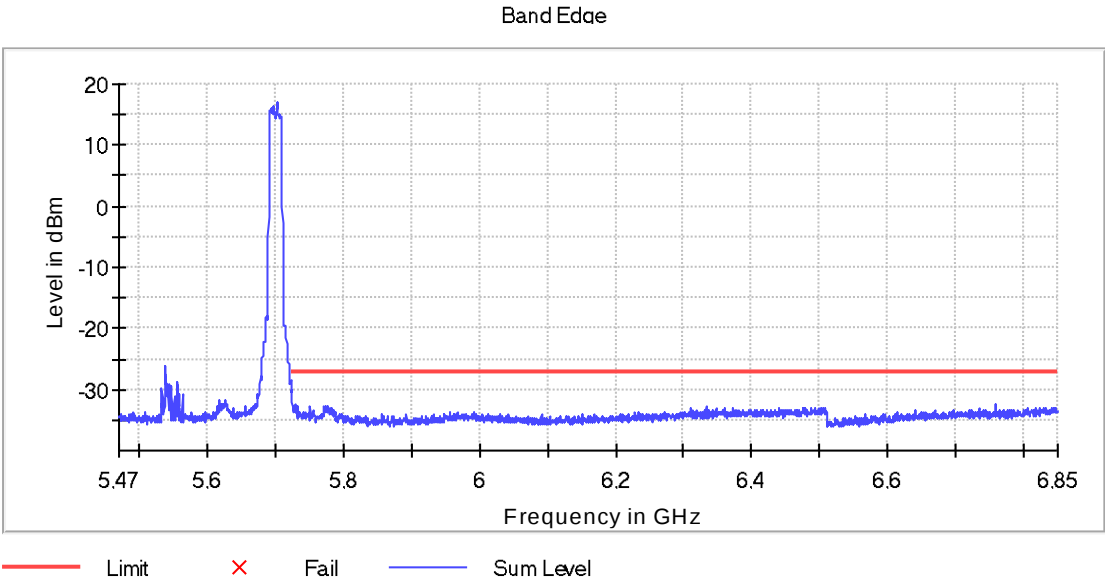


Fig. 215: High Channel – Band Edge

4.7.6.14 Sample #1. Mode #1. U-NII-2C. Modulation N20

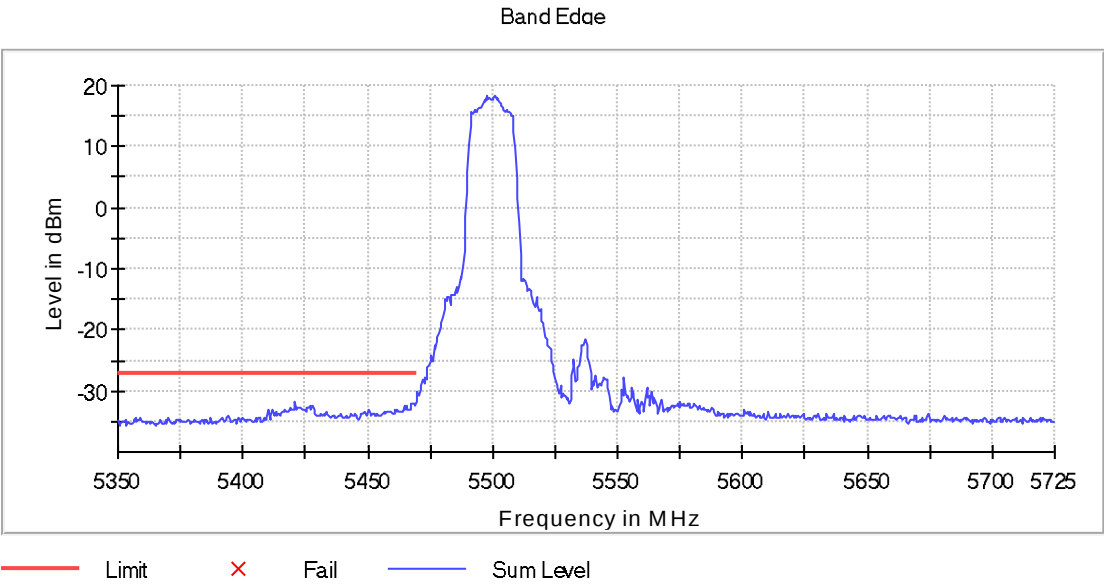


Fig. 216: Low Channel – Band Edge

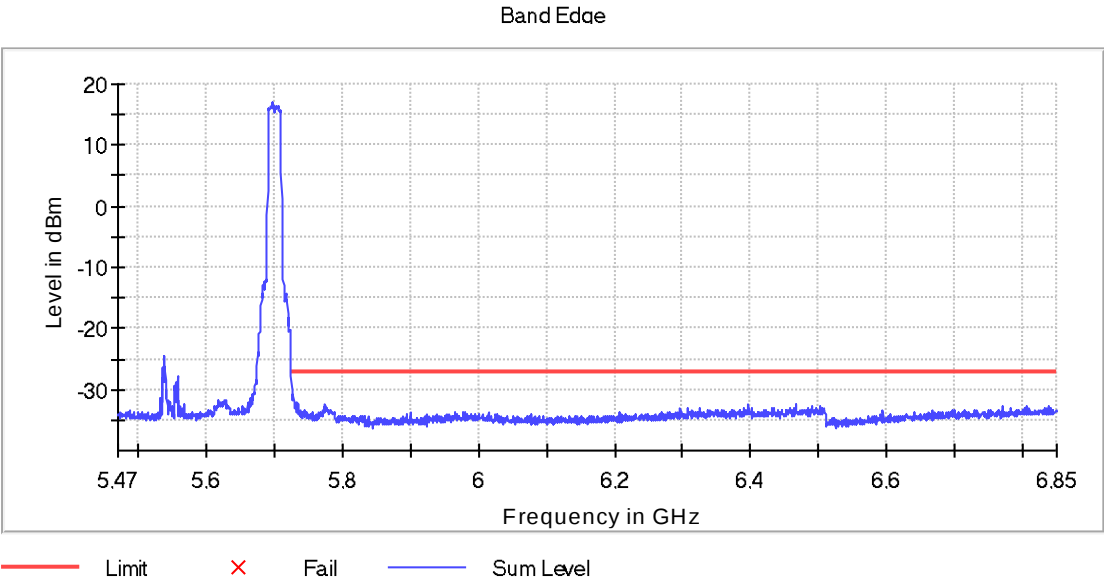


Fig. 217: High Channel – Band Edge

4.7.6.15 Sample #1. Mode #1. U-NII-2C. Modulation AC20

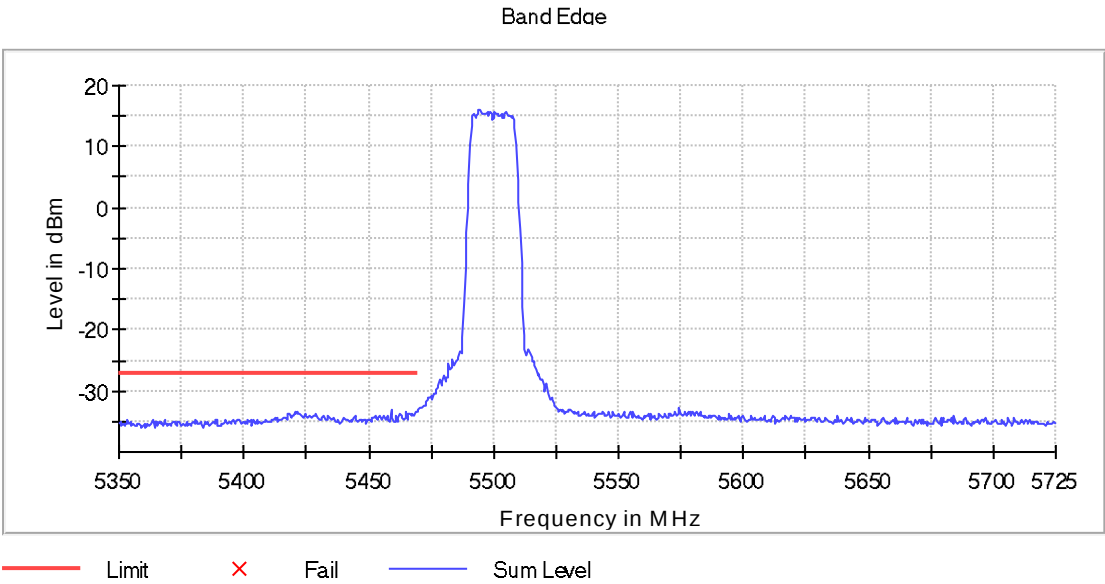


Fig. 218: Low Channel – Band Edge

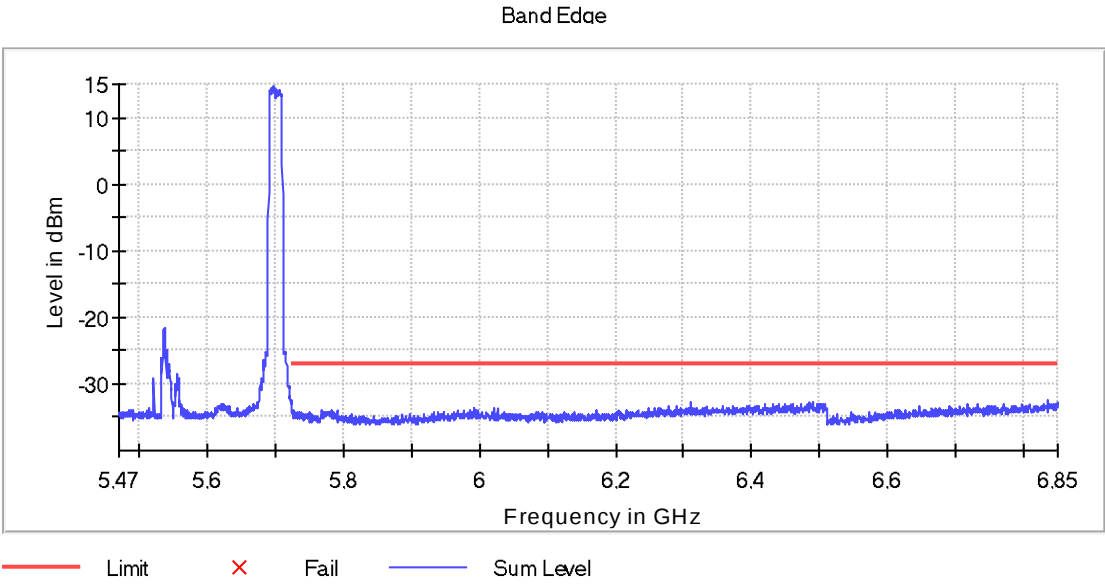


Fig. 219: High Channel – Band Edge

4.7.6.16 Sample #1. Mode #1. U-NII-2C. Modulation N40

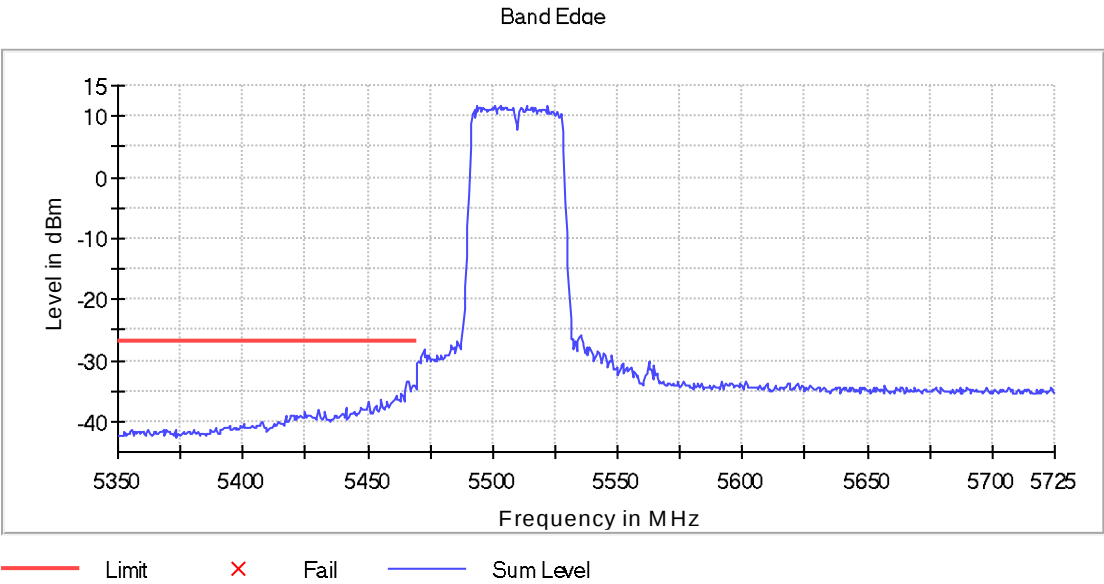


Fig. 220: Low Channel – Band Edge

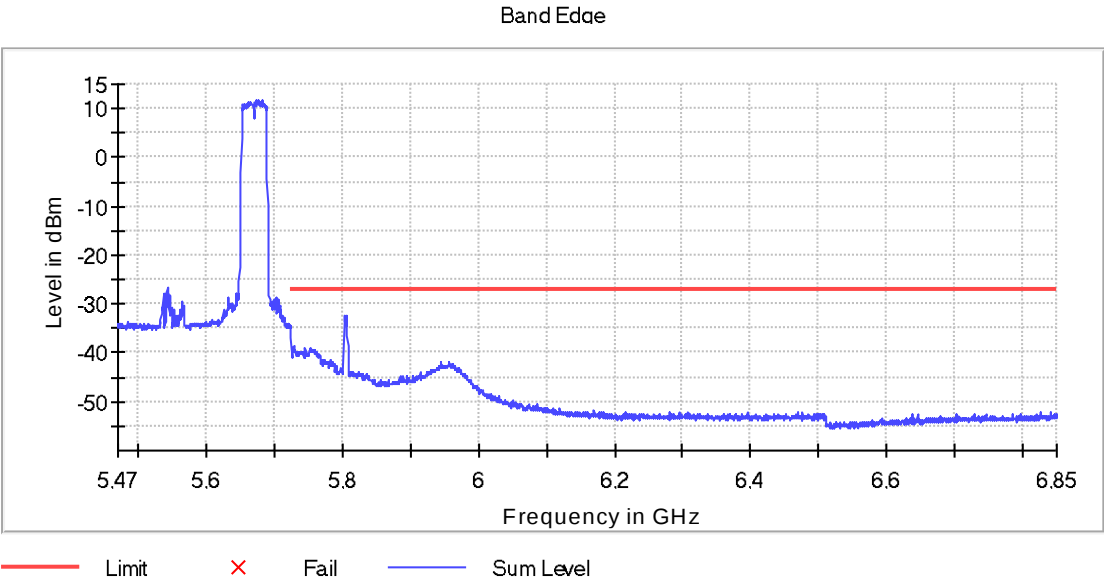


Fig. 221: High Channel – Band Edge

4.7.6.17 Sample #1. Mode #1. U-NII-2C. Modulation AC40

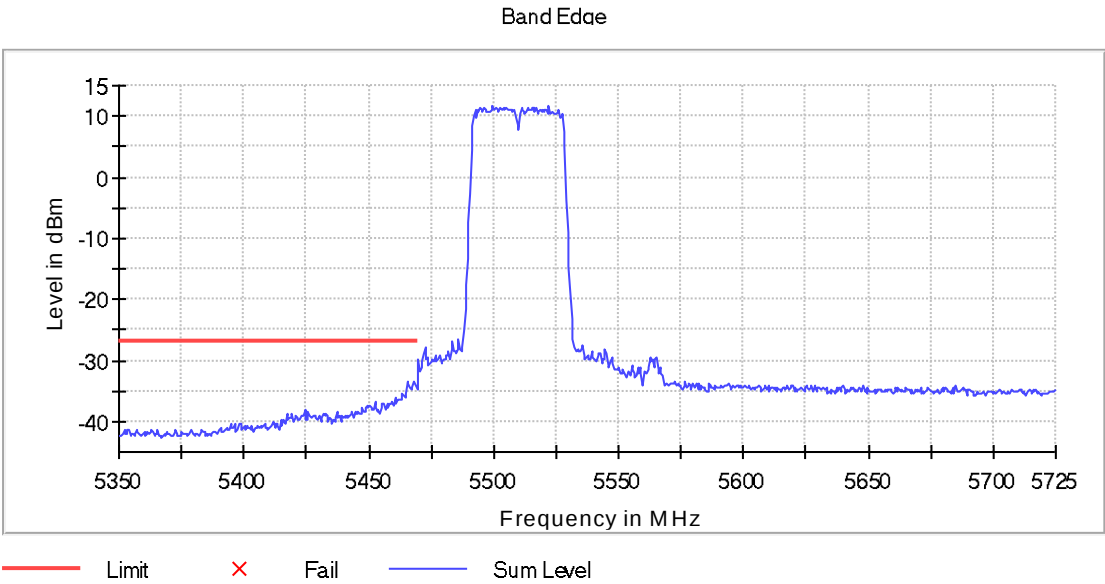


Fig. 222: Low Channel – Band Edge

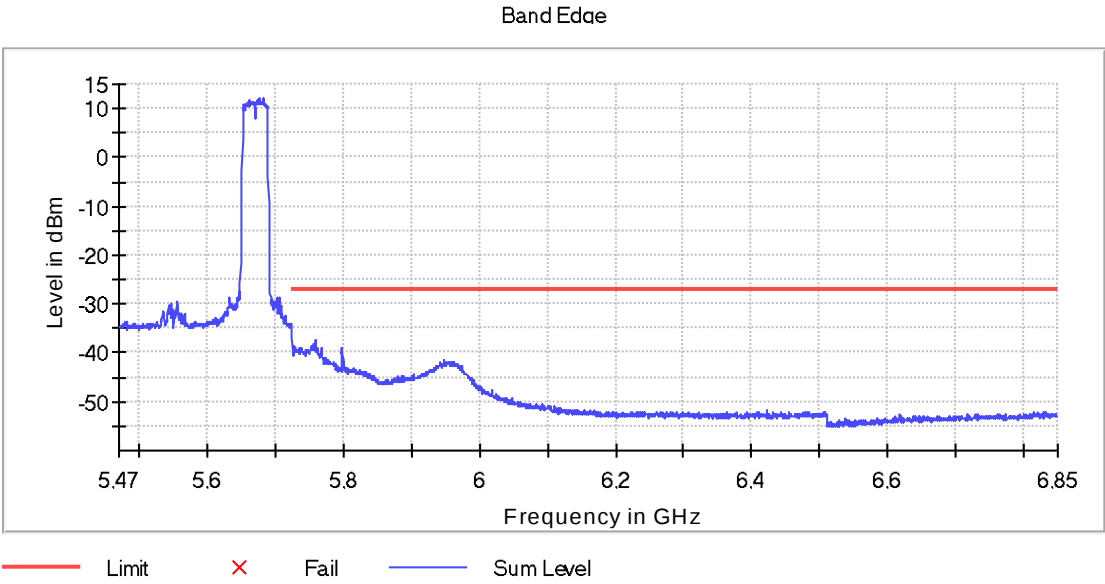


Fig. 223: High Channel – Band Edge

4.7.6.18 Sample #1. Mode #1. U-NII-2C. Modulation AC80

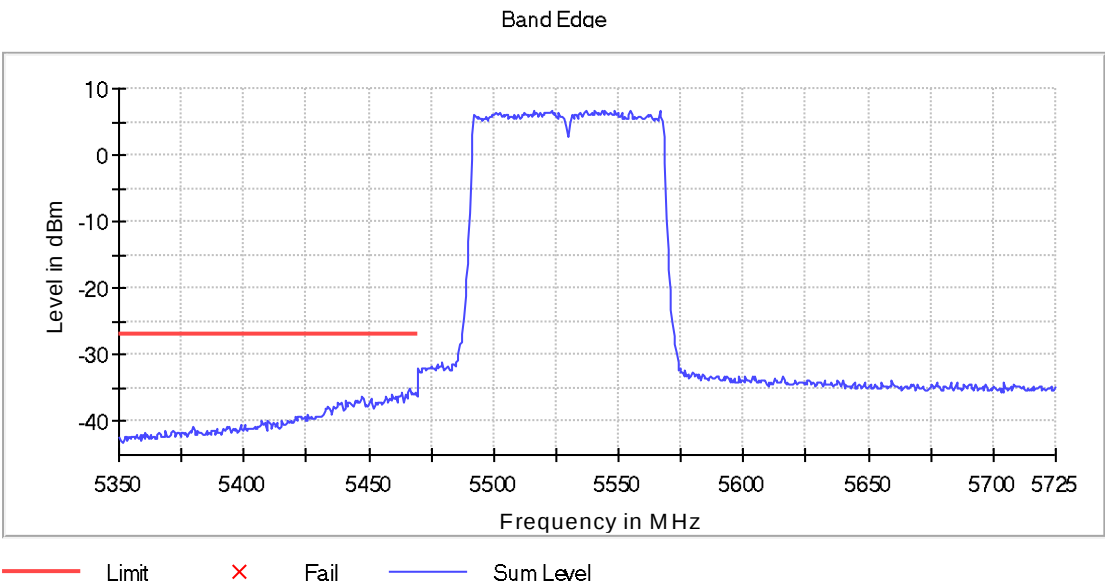


Fig. 224: Low Channel – Low Band Edge

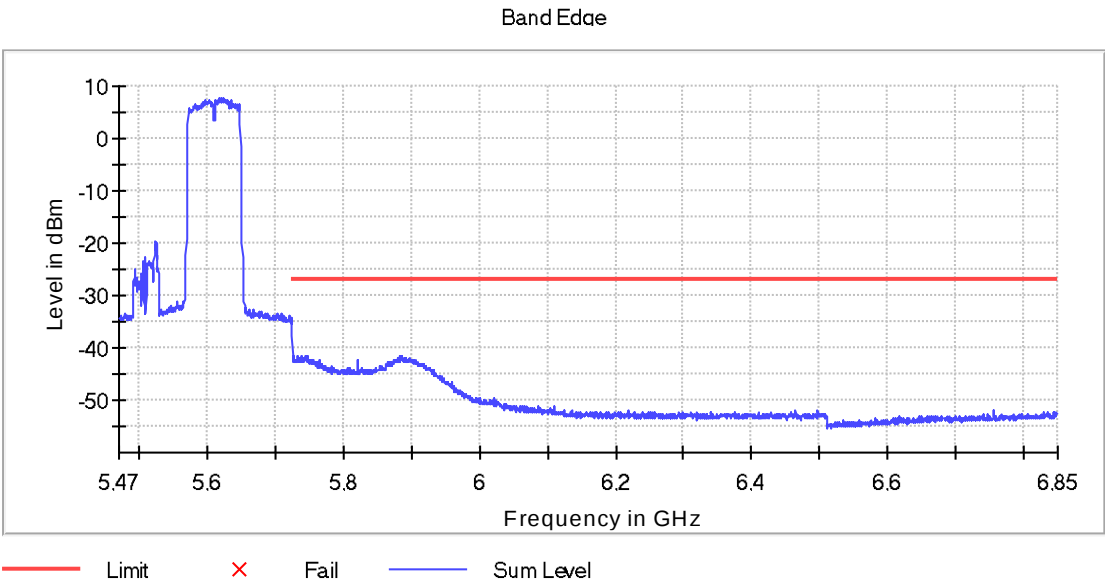


Fig. 225: High Channel – High Band Edge

4.7.6.19 Sample #1. Mode #1. U-NII-3. Modulation A20

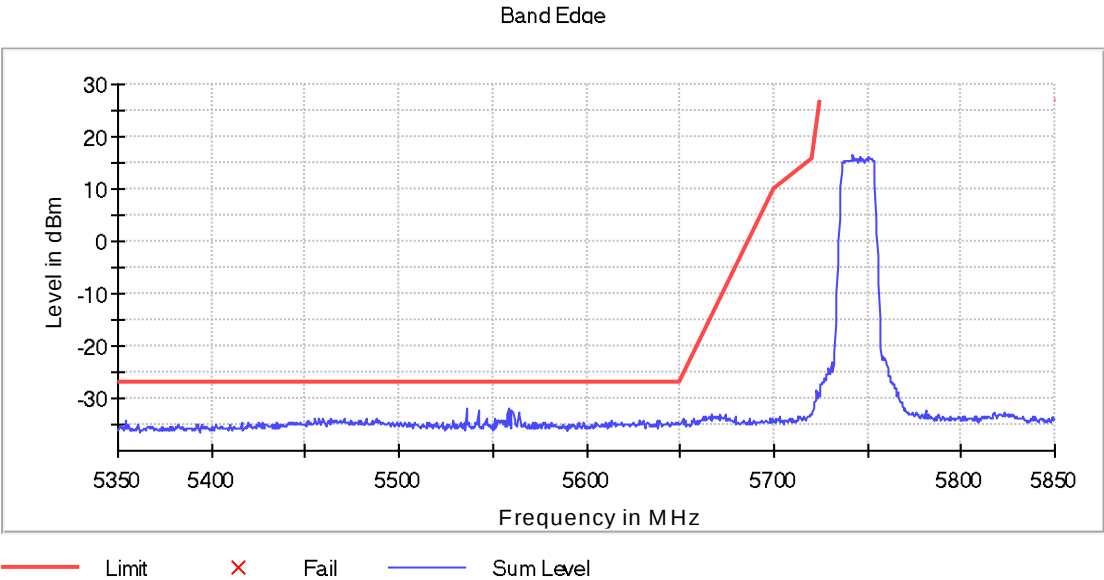


Fig. 226: Low Channel – Band Edge

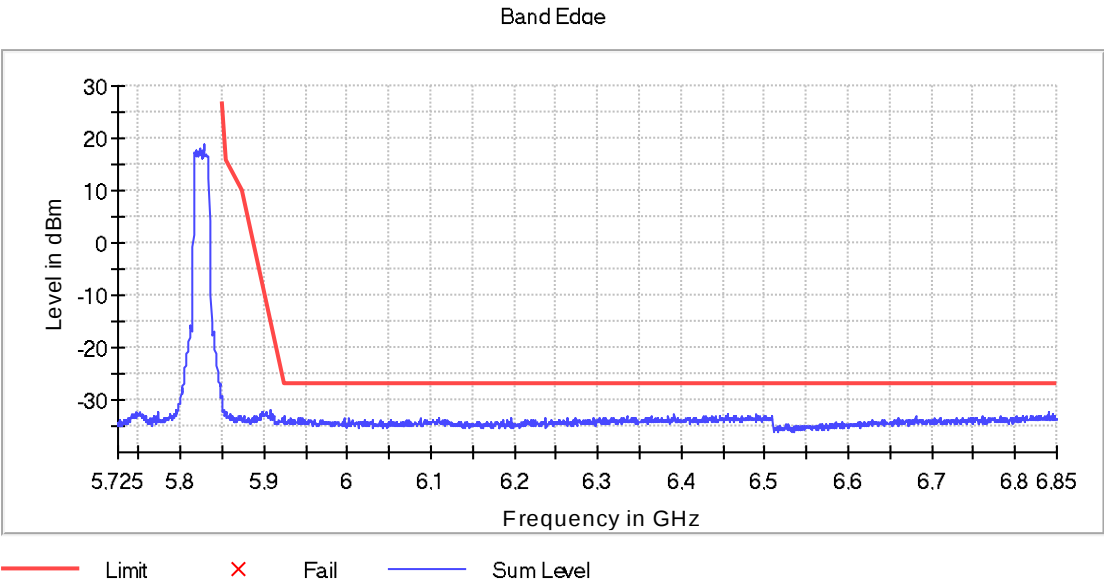


Fig. 227: High Channel – Band Edge

4.7.6.20 Sample #1. Mode #1. U-NII-3. Modulation N20

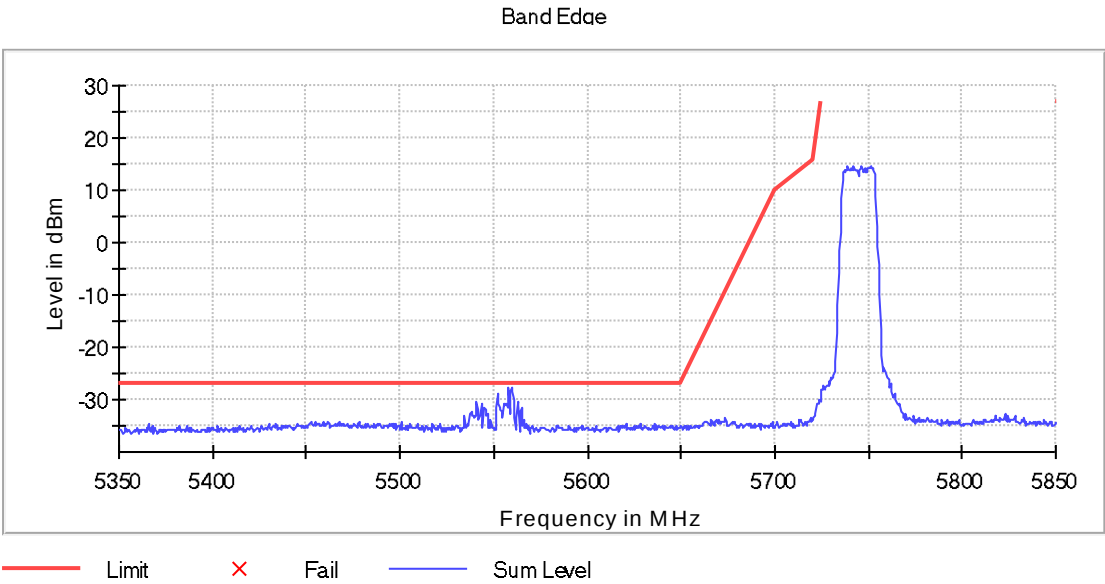


Fig. 228: Low Channel – Band Edge

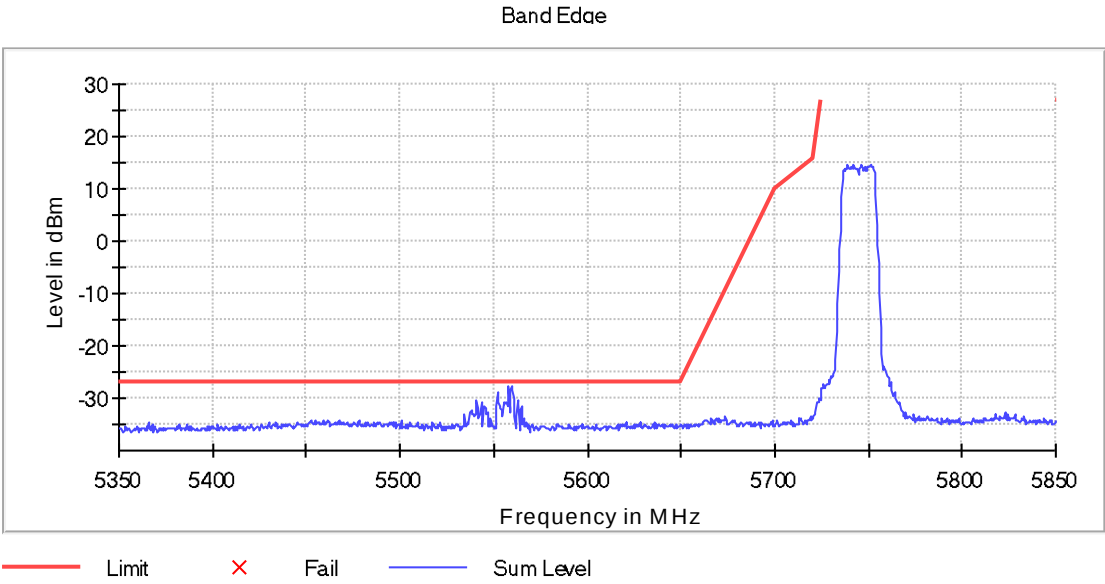


Fig. 229: High Channel – Band Edge

4.7.6.21 Sample #1. Mode #1. U-NI-3. Modulation AC20

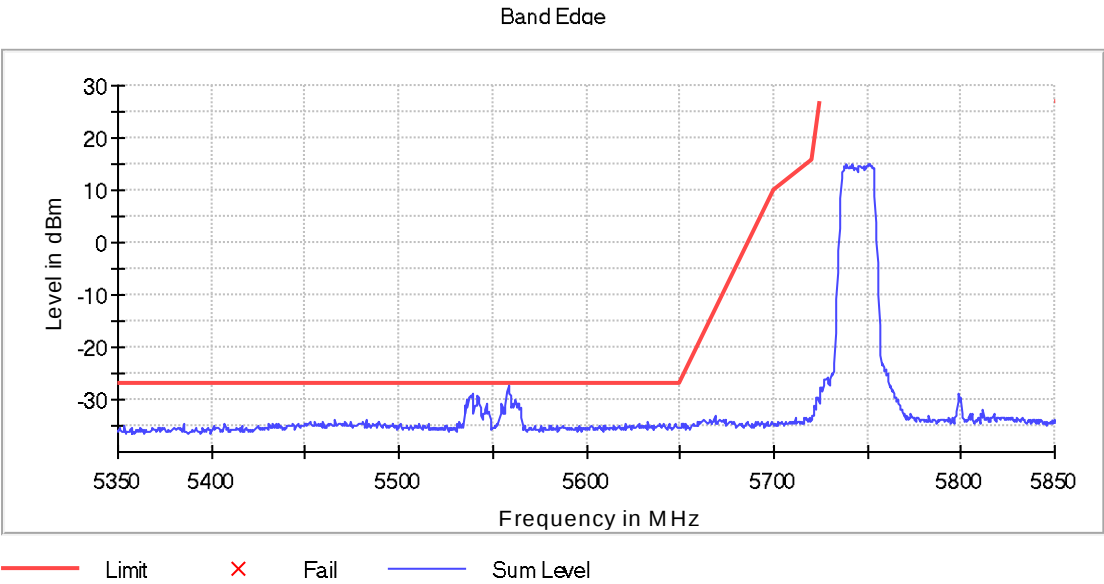


Fig. 230: Low Channel – Band Edge

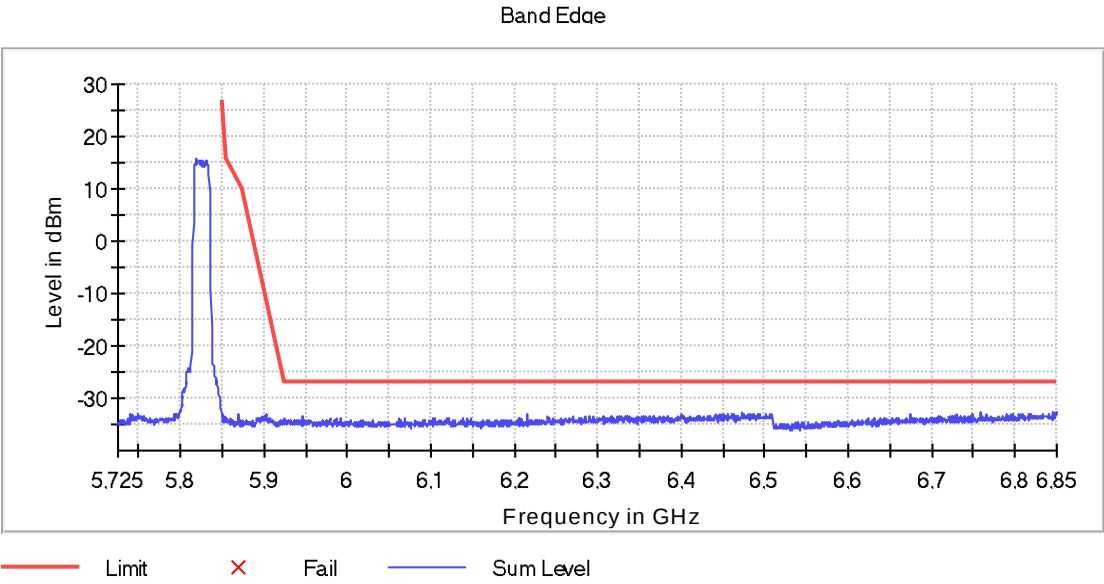


Fig. 231: High Channel – Band Edge

4.7.6.22 Sample #1. Mode #1. U-NI-3. Modulation N40

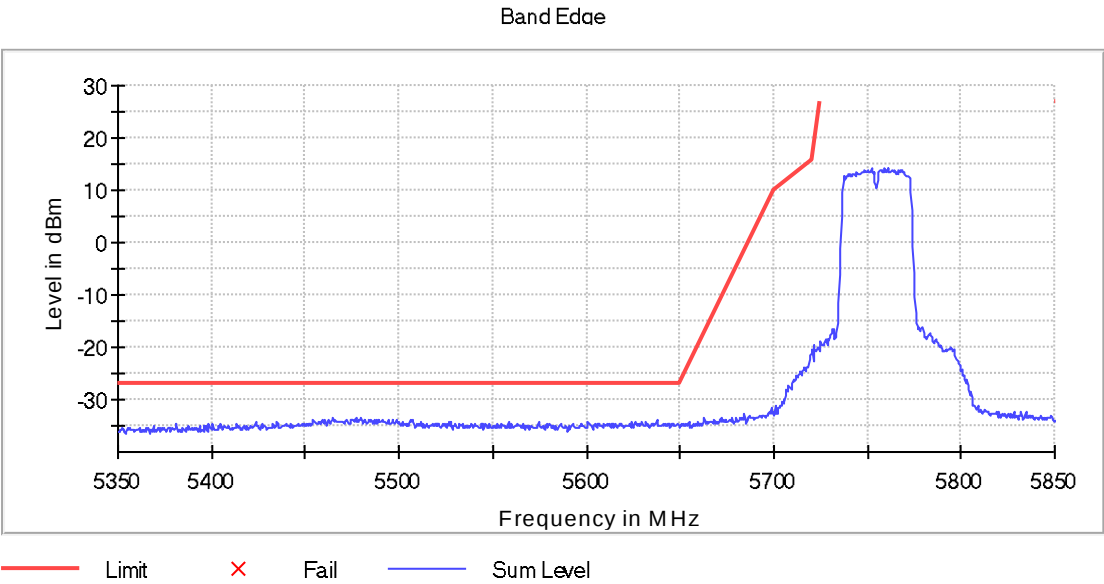


Fig. 232: Low Channel – Band Edge

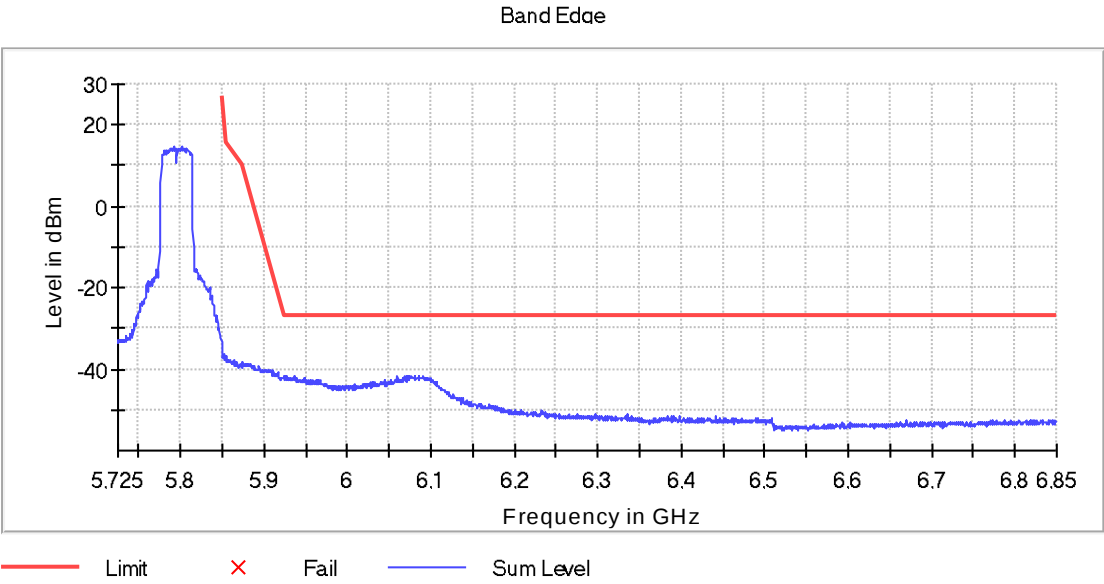


Fig. 233: High Channel – Band Edge

4.7.6.23 Sample #1. Mode #1. U-NII-3. Modulation AC40

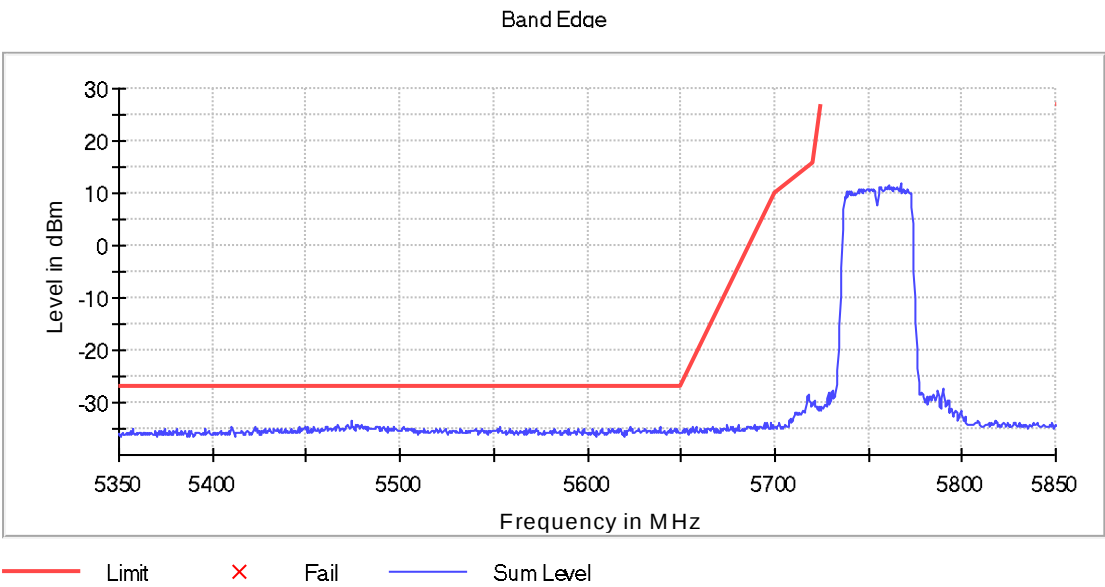


Fig. 234: Low Channel – Band Edge

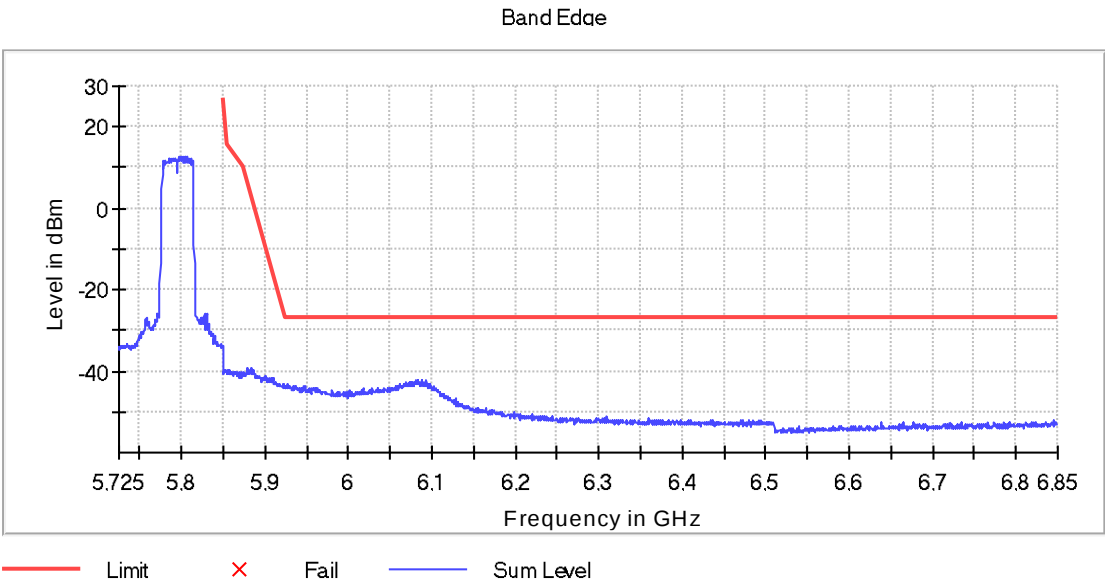


Fig. 235: High Channel – Band Edge

4.7.6.24 Sample #1. Mode #1. U-NII-3. Modulation AC80

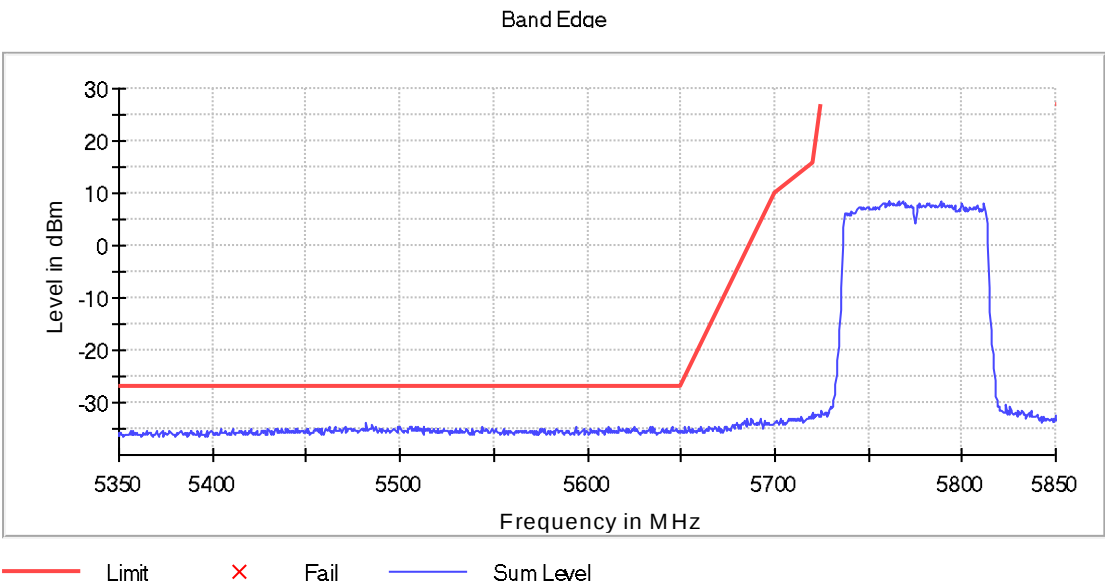


Fig. 236: Low Channel – Low Band Edge

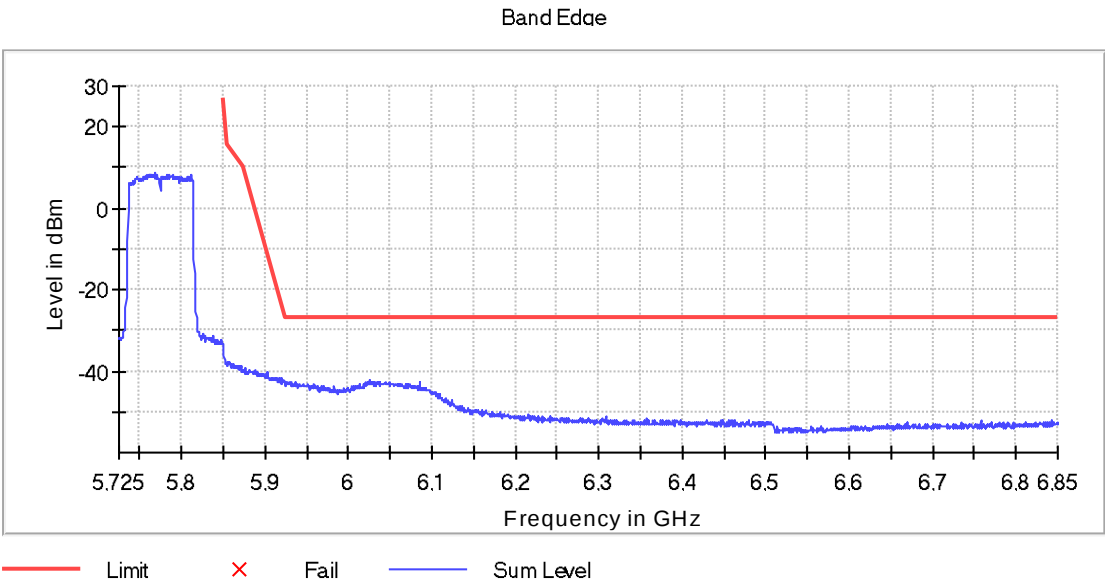


Fig. 237: Low Channel – High Band Edge

4.7.7 Test Equipment Used

Equipment	Brand	Model	Applus Ref.	Last Calibration	Next Calibration
SIGNAL SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSVA3044	1042700	23/02/2022	15/11/2024
RF SWICTH	ROHDE & SCHWARZ	OSP120 + OSPB157W8	1042701	24/03/2022	24/03/2024
RF CABLE 40 GHz	HUBERSUHNER	SF102	1042545	18/05/2023	18/05/2024
RF CABLE 40 GHz	HUBERSUHNER	SF102	1042546	18/05/2023	18/05/2024
RF CABLE	ASTROLAB	32026-29094-29094-24TC	1041565	16/05/2023	16/05/2024
EMC32. EMC MEASUREMENT SOFTWARE	ROHDE & SCHWARZ	R&S. EMC32	104624	-	-
DIGITAL THERMO-HYGROMETER	TESTO	608-H1	1041916	09/02/2024	09/02/2025
SHIELDED CHAMBER SR0	ALBATROSS	SR	1042267	-	-

Table 53: Test Instruments – Band Edge

4.7.8 Uncertainty

Test Type	Test Description	Uncertainty
Emissions	RF output power measurements	1.22 dB

Table 54: Uncertainties - Band Edge

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by a coverage factor $k=2$, which for normal distribution corresponds to a coverage probability of approximately 95%.

4.8 RADIO-FREQUENCY RADIATED EMISSIONS

4.8.1 Test Setup Required

4.8.1.1 Tabletop equipment

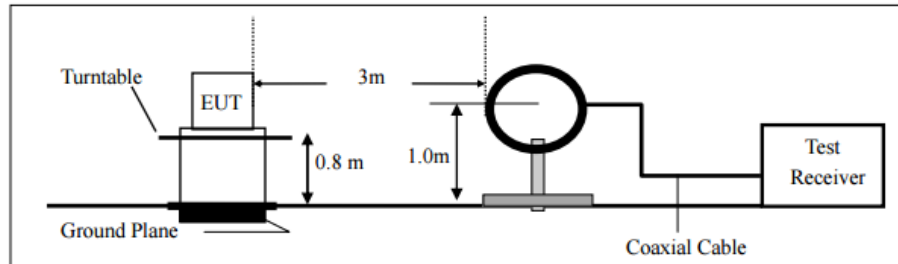


Fig. 238: Radio-frequency radiated emissions of table top equipment from 9 kHz to 30 MHz

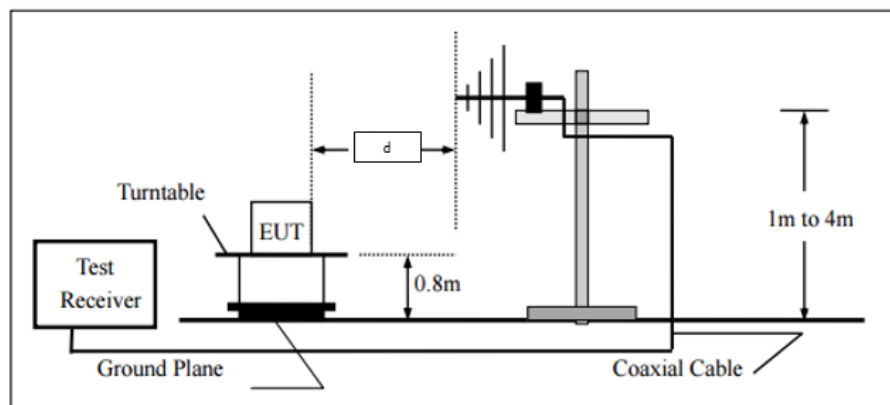


Fig. 239: Radio-frequency radiated emissions of table top equipment from 30 MHz to 1000 MHz
Distance "d" depends on test chamber.

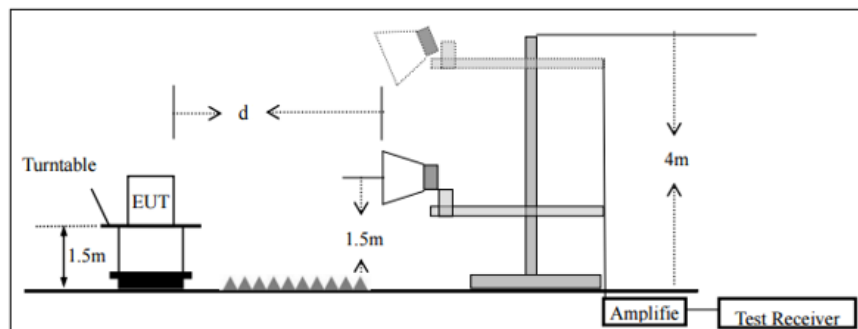


Fig. 240: Radio-frequency radiated emissions setup of table top equipment above 1 GHz

Distance "d" depends on test chamber.

4.8.2 Requirements

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.

The provisions of § 15.205 apply to intentional radiators operating under this section.

Only spurious emissions are permitted in any of the frequency bands listed below:

Frequency [MHz]	Frequency [MHz]	Frequency [MHz]	Frequency [GHz]
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
⁽¹⁾ 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	⁽²⁾
13.36–13.41			

Table 55. Restricted bands of operation

1 Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz.

2 Above 38.6

According to § 15.209(a) and RSS-Gen section 8.9, the radiated emission limits for restricted bands are:

Frequency Range [MHz]	Quasi-peak detector (QP) [dBμV/m]	Peak detector (PK) [dBμV/m]		Average detector (AVG) [dBμV/m]	
	3 m measuring distance	3 m measuring distance	1 m measuring distance ¹	3 m measuring distance	1 m measuring distance ¹
0.009 – 0.490	$20\log(2400/F[\text{kHz}]) + 80$	N/A	N/A	N/A	N/A
0.490 – 1.705	$20\log(24000/F[\text{kHz}]) + 40$	N/A	N/A	N/A	N/A
1.705 - 30	$20\log(24000/F[\text{kHz}]) + 40$	N/A	N/A	N/A	N/A
30 – 88	40.0	N/A	N/A	N/A	N/A
88 – 216	43.5	N/A	N/A	N/A	N/A
216 – 960	46.0	N/A	N/A	N/A	N/A
960 – 1000	54.0	N/A	N/A	N/A	N/A
1000 – 18000	N/A	74	N/A	54	N/A
18000 - 40000	N/A	N/A	83.54	N/A	63.54

Table 56: Radio-frequency radiated emissions requirements

Note 1: The limits has been modified according to the applicable standard applying the formula: $L_2 = L_1 - 20\log(d_2/d_1)$, where:

L_2 : New Limit.

L_1 : Limit at 3 meters.

d_1 : 3 meters (standard distance).

d_2 : 1 meter (new measurement distance).

According to FCC Part 15 Subpart C FCC 15.247, the limits for unrestricted bands are:

Frequency Range [MHz]	Test Mode	Field strength [$\mu\text{V/m}$]	Measurement distance [m]
30 – 88	QPK	-20 dBc / -30 dBc	3
88 – 216			
216 – 960			
Above 960	Peak power / RMS averaging		

Table 57. Radiated Emission limits. Unrestricted bands

4.8.2.1 Receiver Parameters

According to standard ANSI C63.4:2014:

Frequency Range [MHz]	Detector	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]
0.009 – 0.15	Quasi-peak (QP)	$200 \cdot 10^{-6}$	$1 \cdot 10^{-3}$
0.15 – 30	Quasi-peak (QP)	$9 \cdot 10^{-3}$	$30 \cdot 10^{-3}$
30 – 1000	Quasi-peak (QP)	0.12	0.30
Above 1000	Peak (PK)	1	3
	Average (AVG)	1	10

Table 58: Receiver parameters – Radio-frequency radiated emissions

4.8.3 Test Environmental Conditions

Test Date	Technician	Supervisor	Temperature [°C]	Humidity [%]	Atm. Pressure [mbar]
06/02/2024	G. Ballesteros	Javier Miguel Nadas	23.3	43.1	1017
06/02/2024	O. Merchán	--	23.7	44.3	998
07/02/2024	J.M LLauradó			44.3	998
07/02/2024	G. Ballesteros	Javier Miguel Nadas	21.3	47.3	1011
07/02/2024	O. Merchán	--	22.4	51.2	1004
08/02/2024	J.M LLauradó	--	22.7	44.6	1008
08/02/2024	O. Merchán	--	21.1	46.8	1012
09/02/2024	J.M LLauradó	--	20.9	47.2	1011

Table 59: Test environmental conditions – Radio-frequency radiated emissions

4.8.4 Summary Test Results

Frequency Range [MHz]	Test Area	Distance [m]	Emissions	Results
9 kHz – 30 MHz	SAC 1	3 m	QP < Limit - I	PASS
30 MHz – 1 GHz	SAC 1	3 m	QP < Limit - I	PASS
1 GHz – 3.5 GHz	SAC 1	3 m	PK < Limit - I AVG < Limit - I	PASS
3.5 GHz – 8 GHz	SAC 1	3 m	PK < Limit - I AVG < Limit - I	PASS
8 GHz – 18 GHz	SAC 1	3 m	PK < Limit - I AVG < Limit - I	PASS
18 GHz – 26 GHz	SAC 1	1 m	PK < Limit - I AVG < Limit - I	PASS
26 GHz – 40 GHz	SAC 1	1 m	PK < Limit - I AVG < Limit - I	PASS

Table 60: Summary test results – Radio-frequency radiated emissions

Note 1: According to RSS-Gen section 6.13.2 and ANSI C63.10:2013 section 5.5 as the lowest radio frequency generated by the equipment is above 30 MHz, the spectrum shall be investigated from 30 MHz.

4.8.5 Test Results

4.8.5.1 Ambient Levels. Frequency range: 9 kHz – 30 MHz

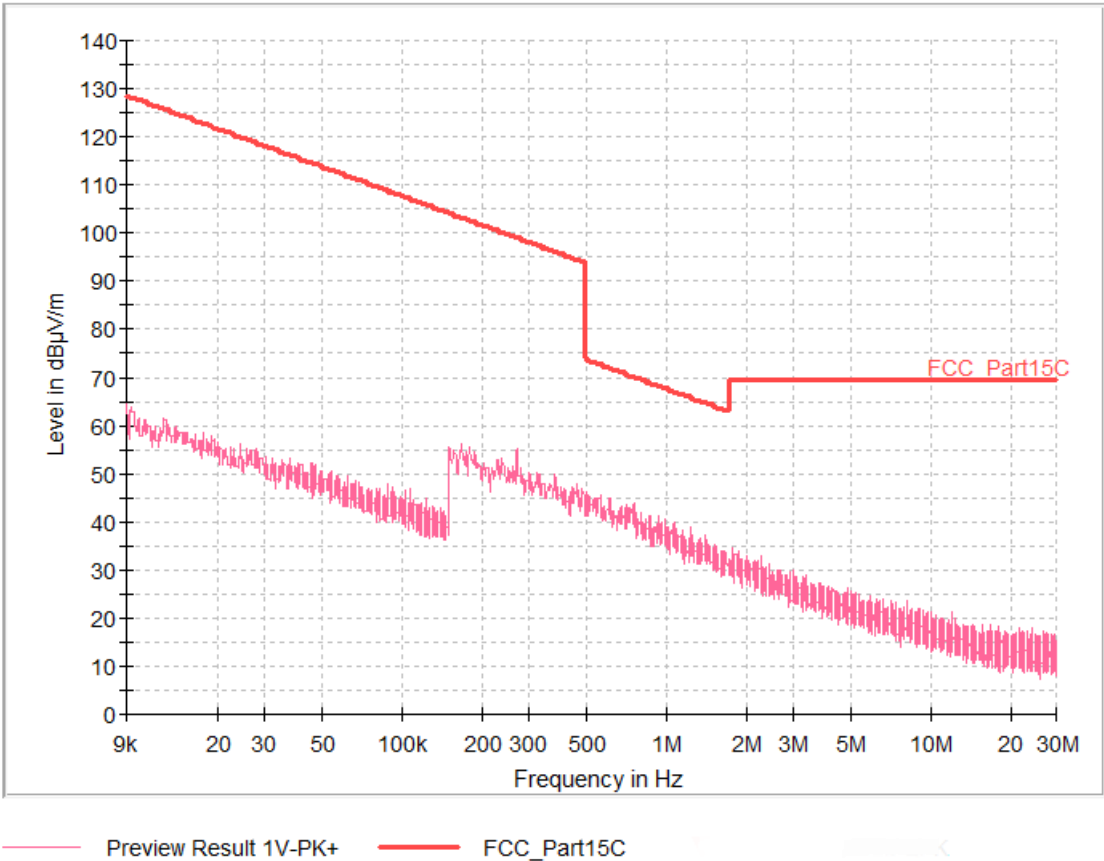


Fig. 241: Ambient level. Frequency range: 9 kHz – 30 MHz - Axis X

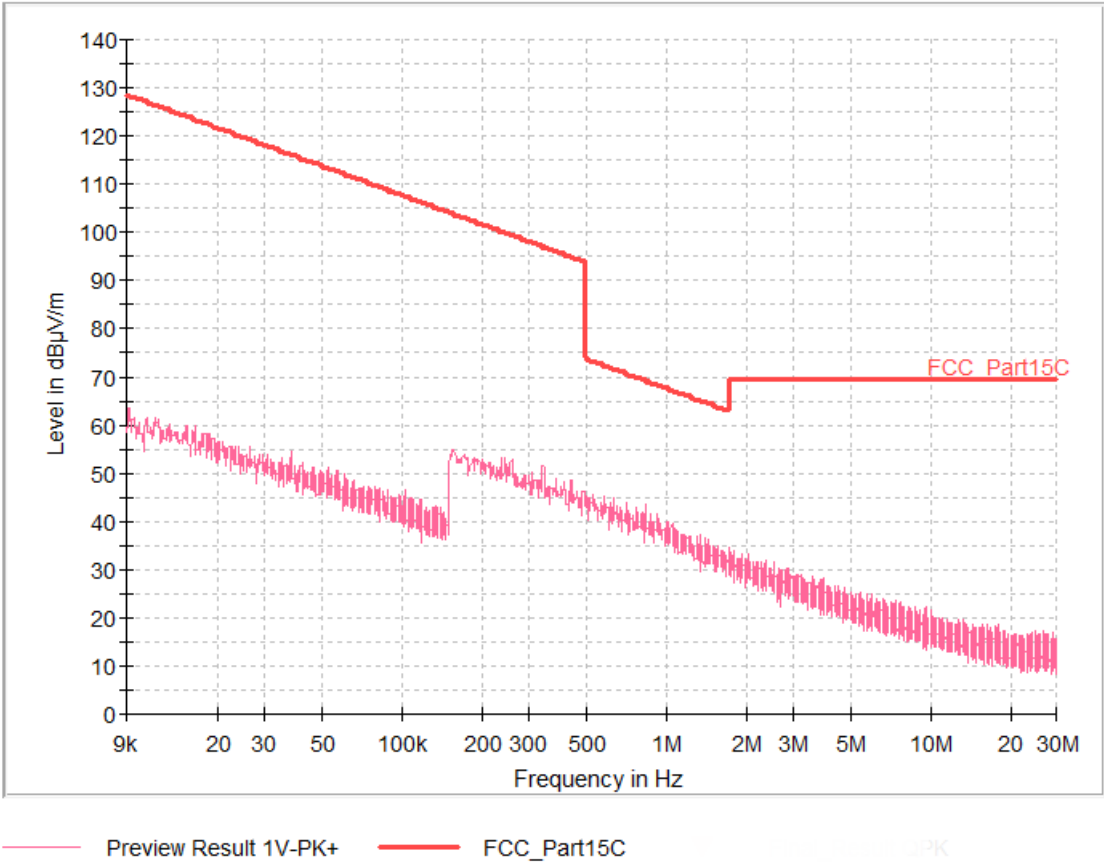


Fig. 242: Ambient level. Frequency range: 9 kHz – 30 MHz - Axis Y

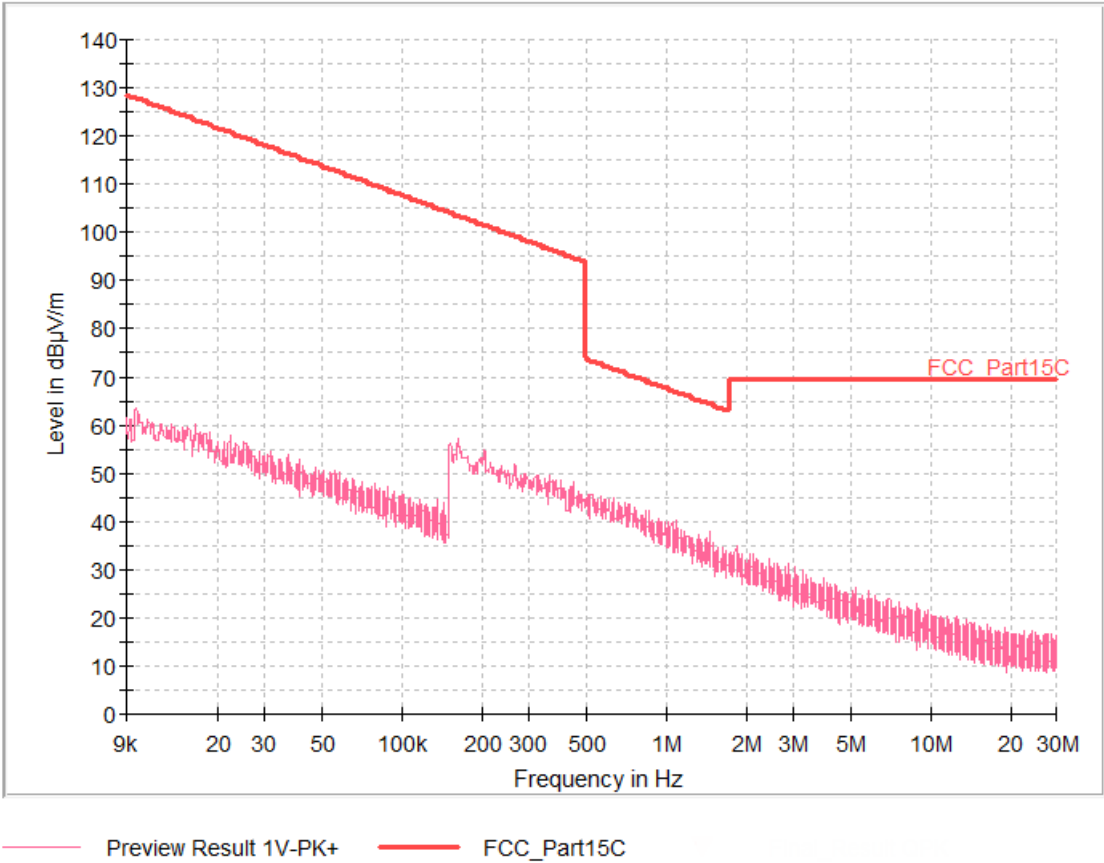


Fig. 243: Ambient level. Frequency range: 9 kHz – 30 MHz - Axis Z

4.8.5.2 Ambient Levels. Frequency range: 30 MHz – 1 GHz

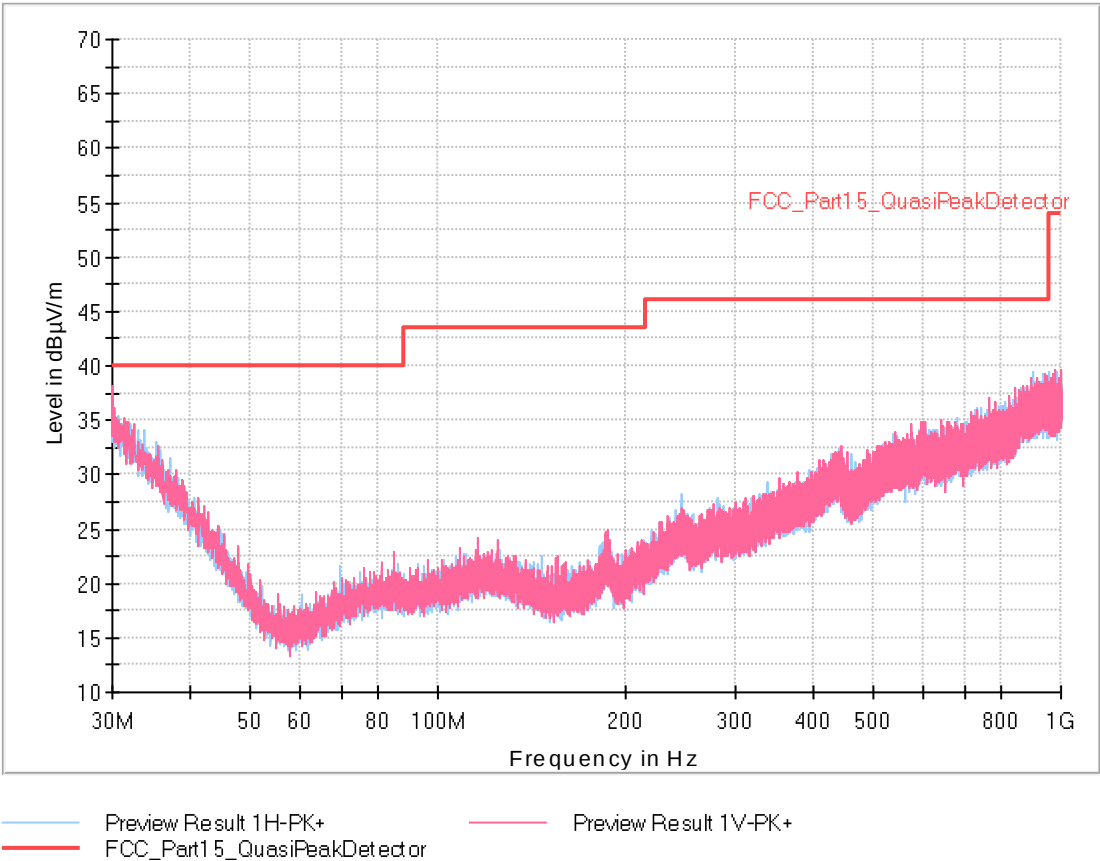


Fig. 244: Ambient level. Frequency range: 30 MHz – 1 GHz

4.8.5.3 Ambient Levels. Frequency range: 1 GHz – 8 GHz

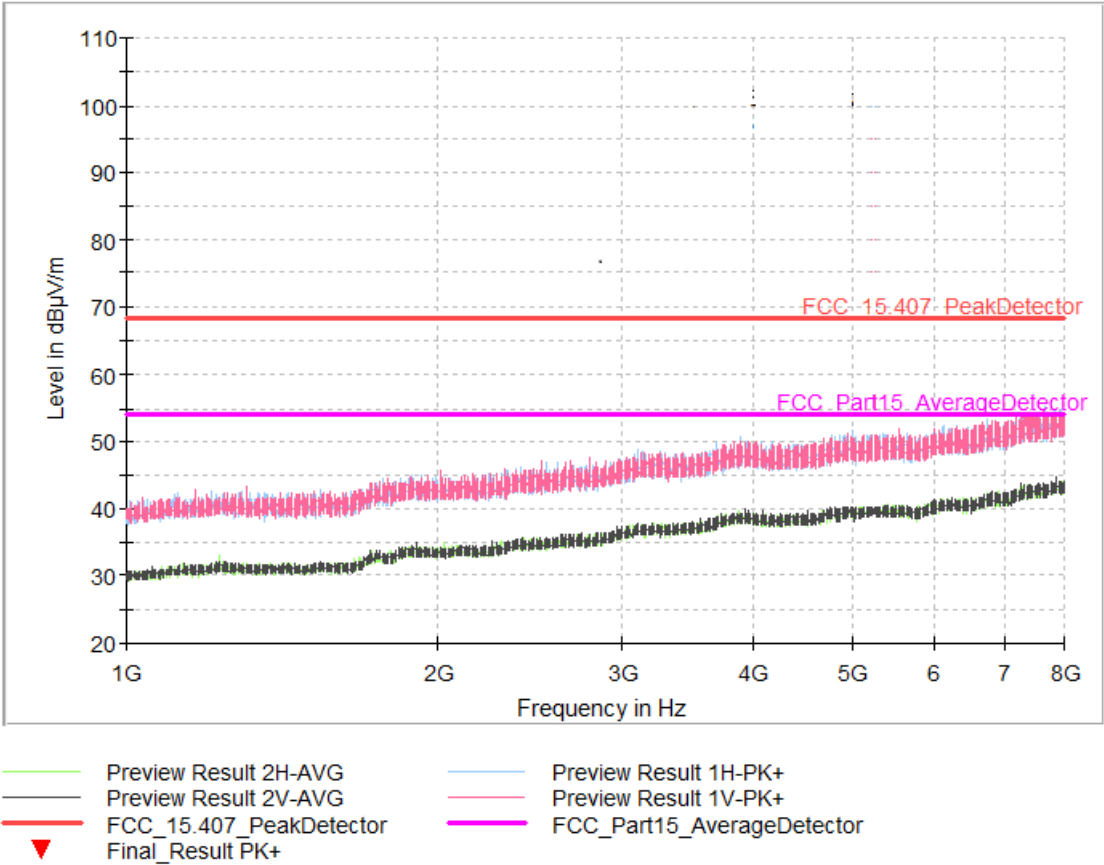


Fig. 245: Ambient level. Frequency range: 1 GHz – 3.5 GHz

4.8.5.4 Ambient Levels. Frequency range: 8 GHz – 18 GHz

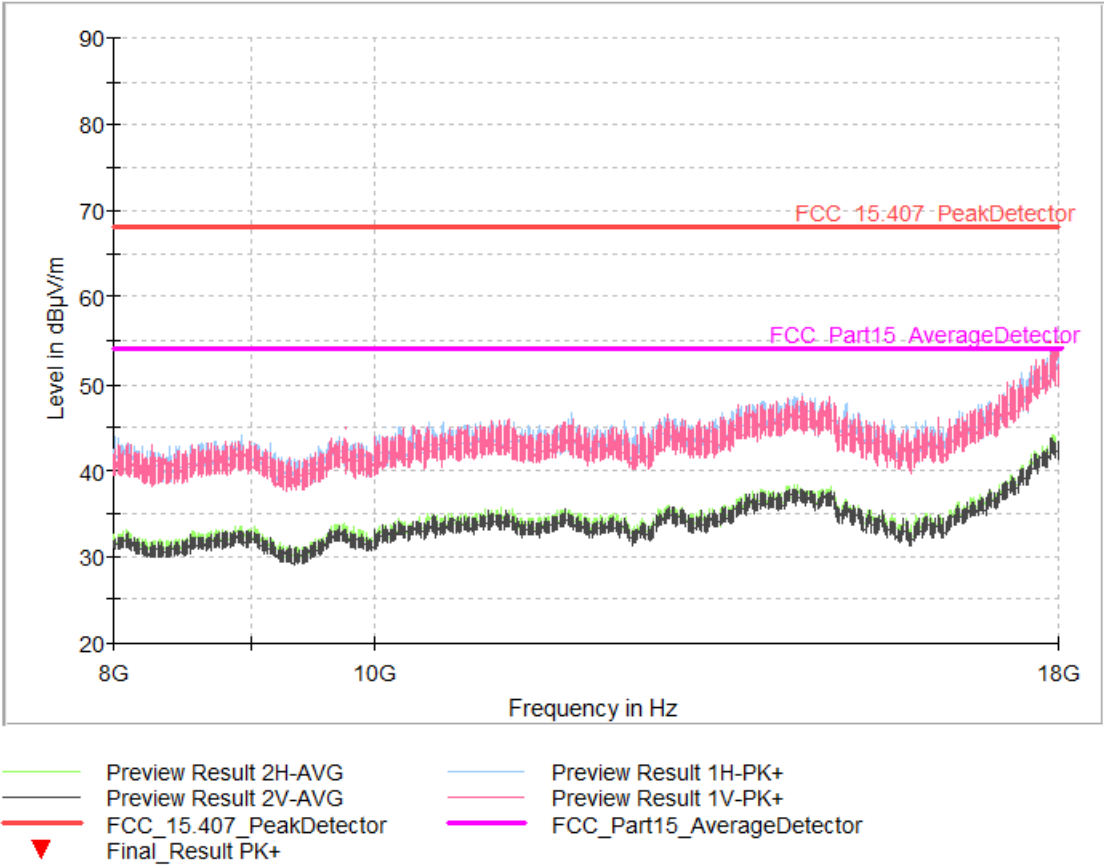


Fig. 246: Ambient level. Frequency range: 8 GHz – 18 GHz

4.8.5.5 Ambient Levels. Frequency range: 18 GHz – 26 GHz

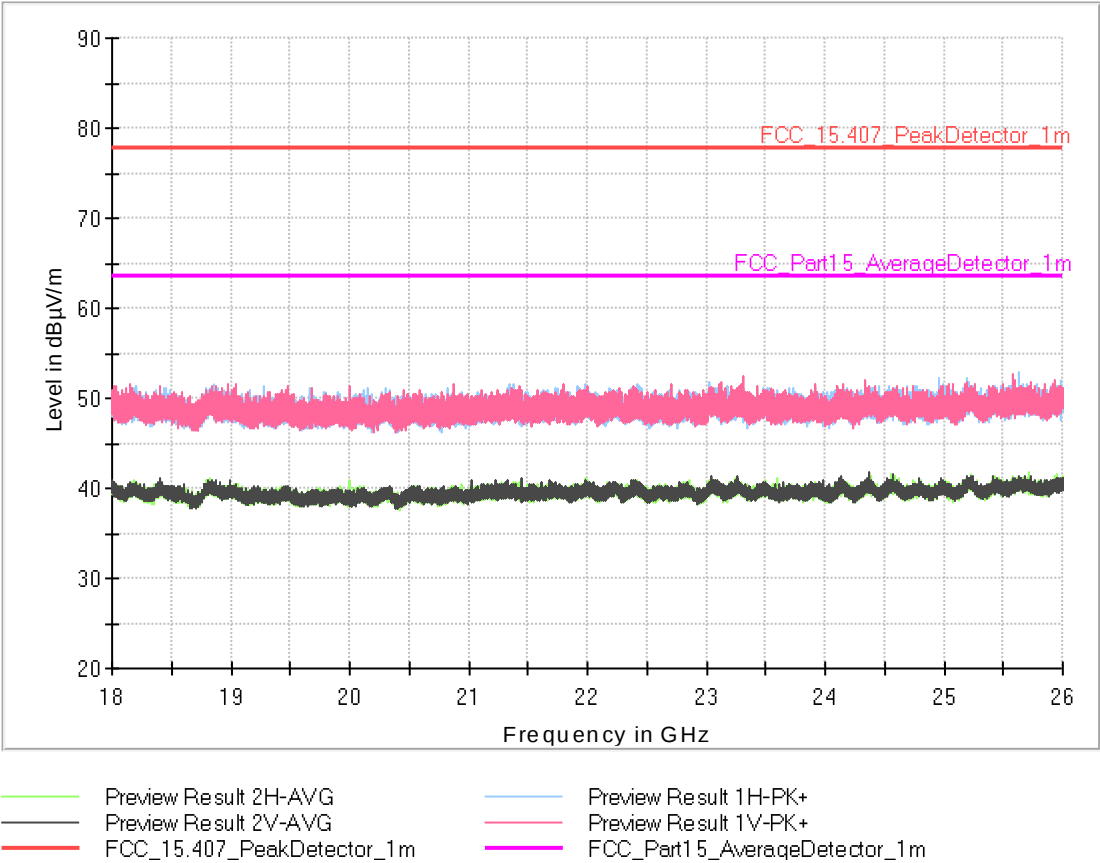


Fig. 247: Ambient level. Frequency range: 18 GHz – 26 GHz

4.8.5.6 Ambient Levels. Frequency range: 26 GHz – 40 GHz

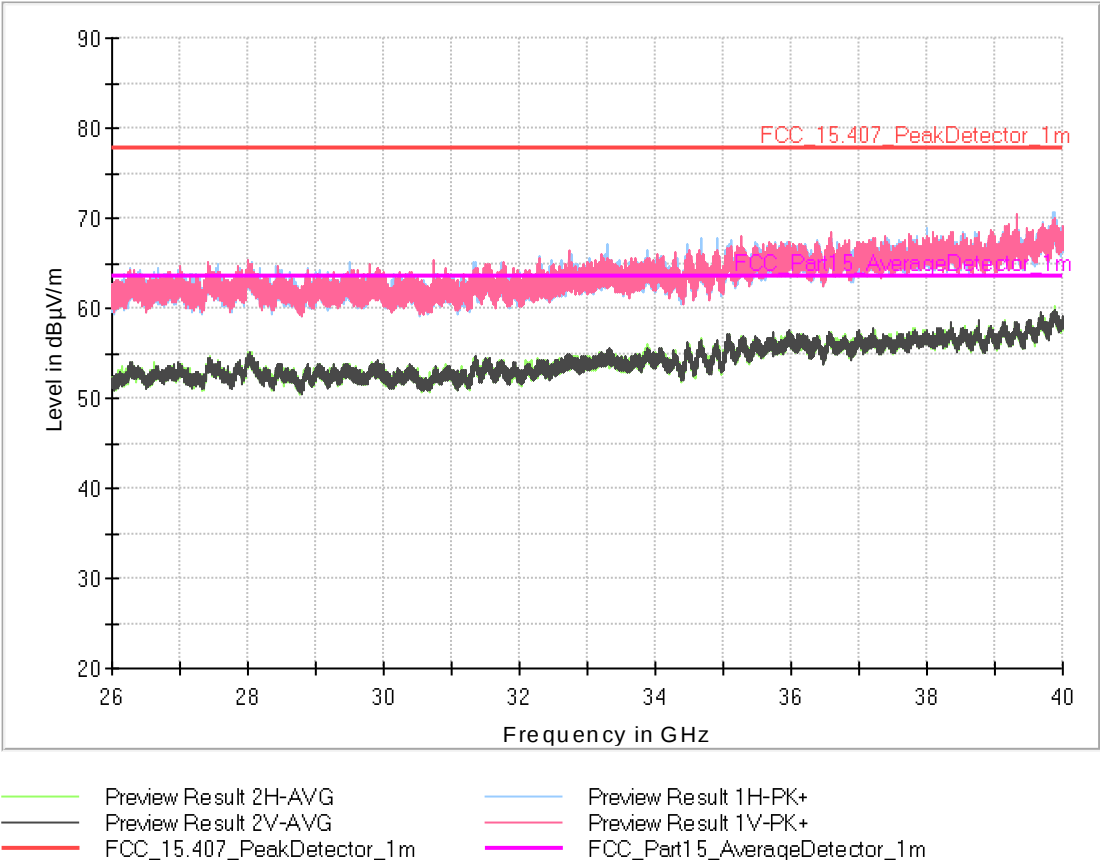


Fig. 248: Ambient level. Frequency range: 26 GHz – 40 GHz