

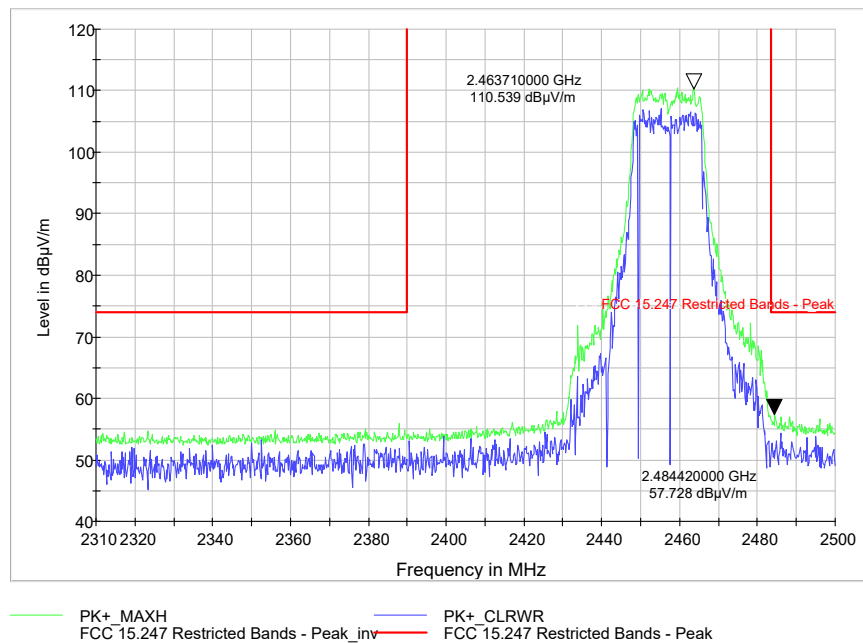


Figure 9-322 Radiated Band Edge Peak 802.11n20 - Ch.10 (2457 MHz)

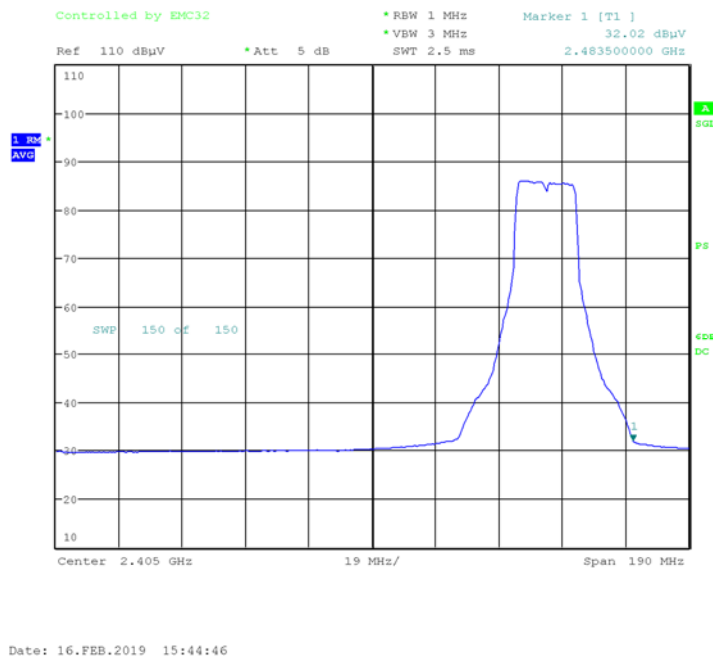


Figure 9-323 Radiated Band Edge Average 802.11n20 - Ch.10 (2457 MHz)

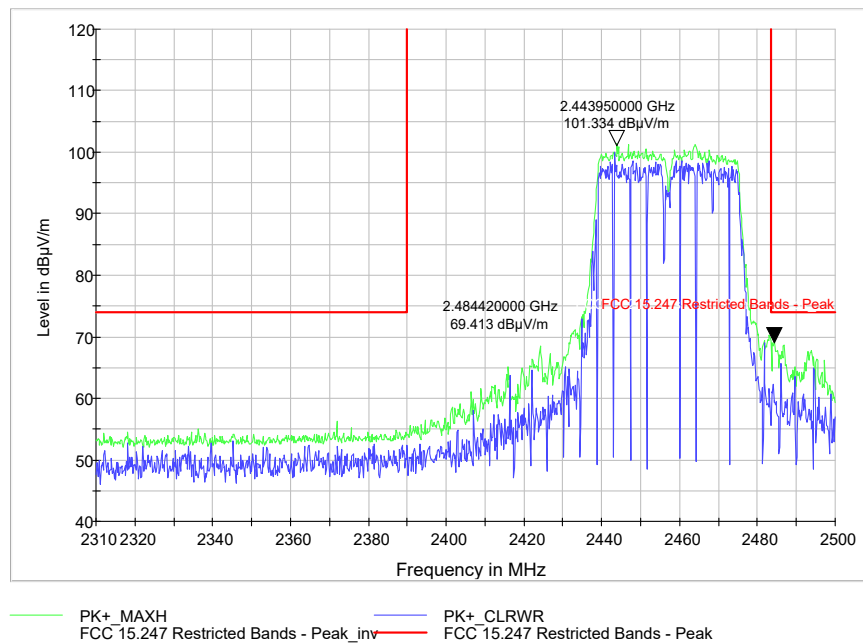


Figure 9-324 Radiated Band Edge Peak 802.11n40 - Ch.10 (2457 MHz)

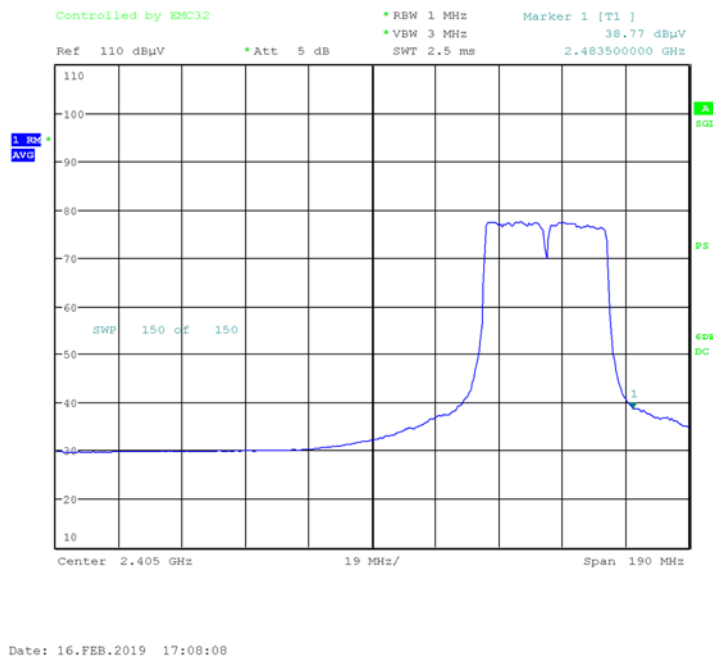
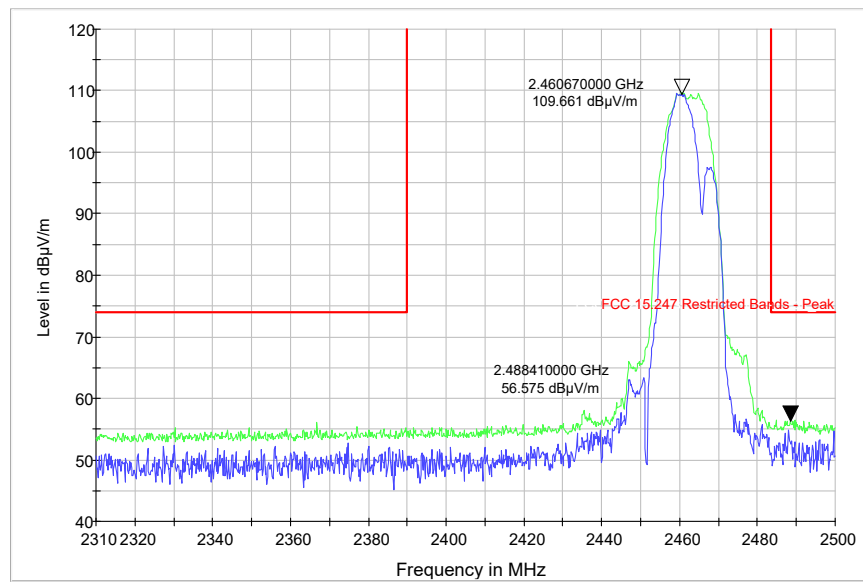
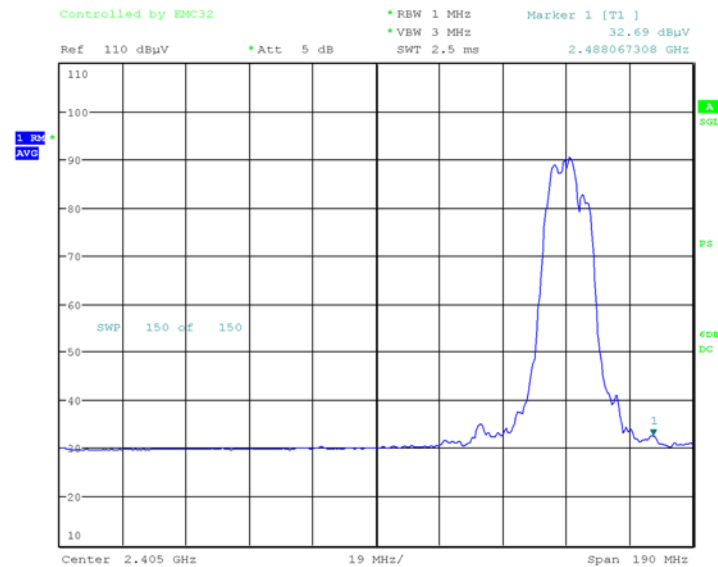


Figure 9-325 Radiated Band Edge Average 802.11n40 - Ch.10 (2457 MHz)

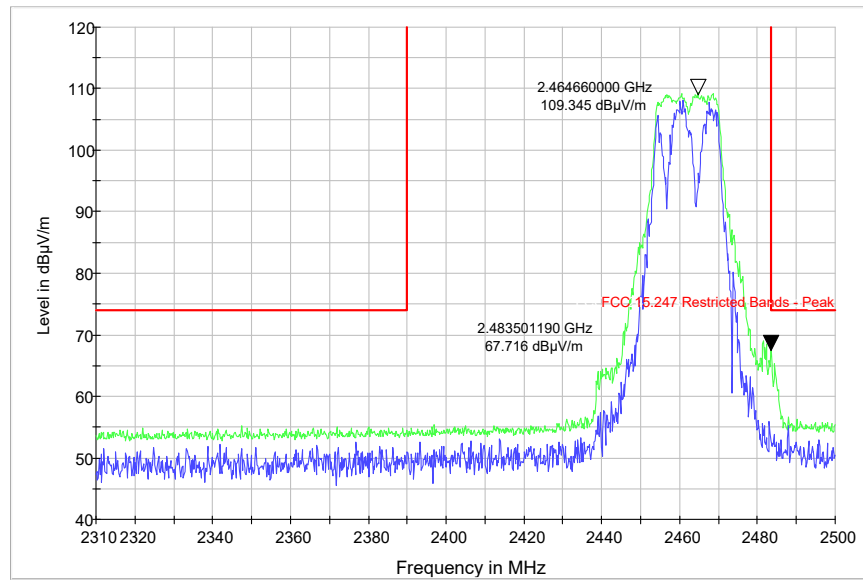


Plot 9-326 Radiated Band Edge Peak 802.11b - Ch.11 (2462 MHz)

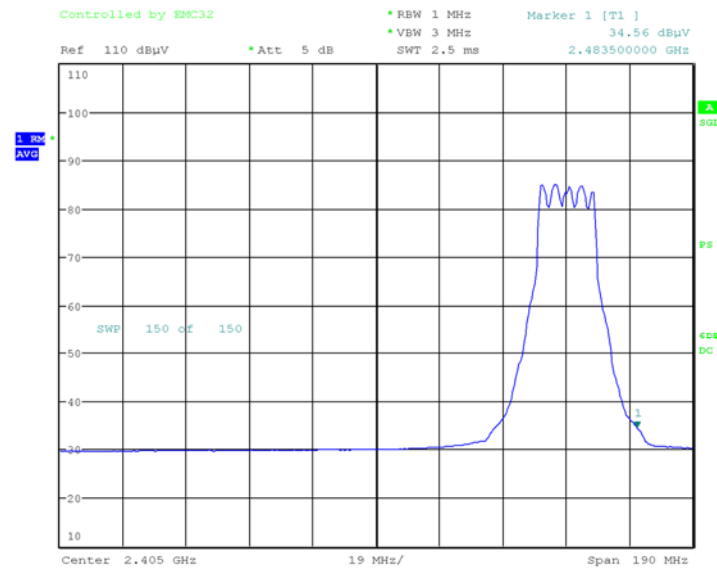


Date: 16.FEB.2019 13:01:48

Plot 9-327 Radiated Band Edge Average 802.11b - Ch.11 (2462 MHz)

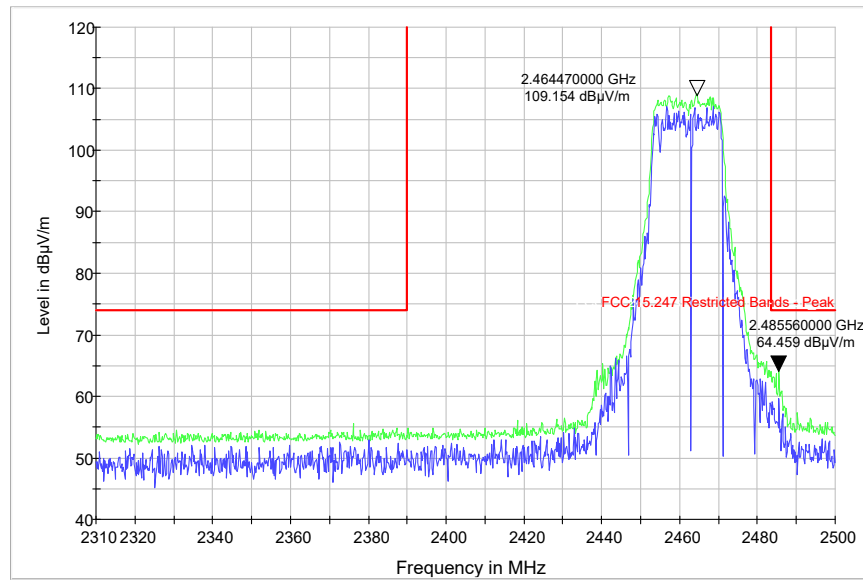


Plot 9-328 Radiated Band Edge Peak 802.11g - Ch.11 (2462 MHz)

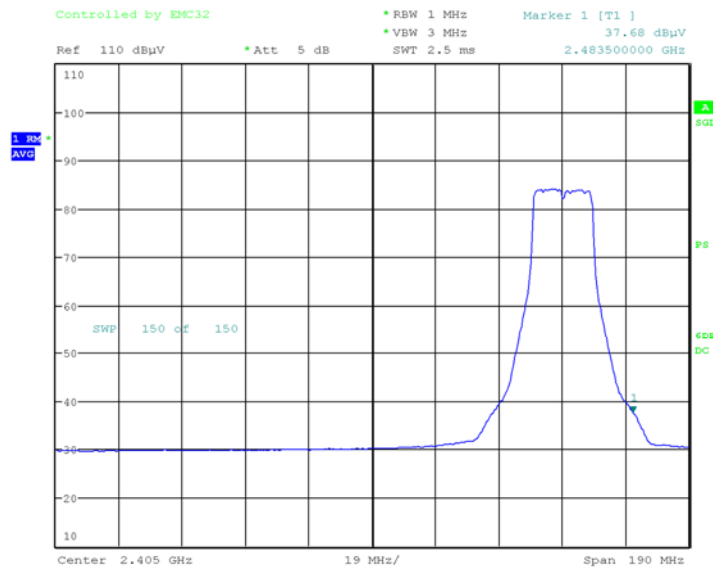


Date: 15.FEB.2019 22:07:58

Plot 9-329 Radiated Band Edge Average 802.11g - Ch.11 (2462 MHz)

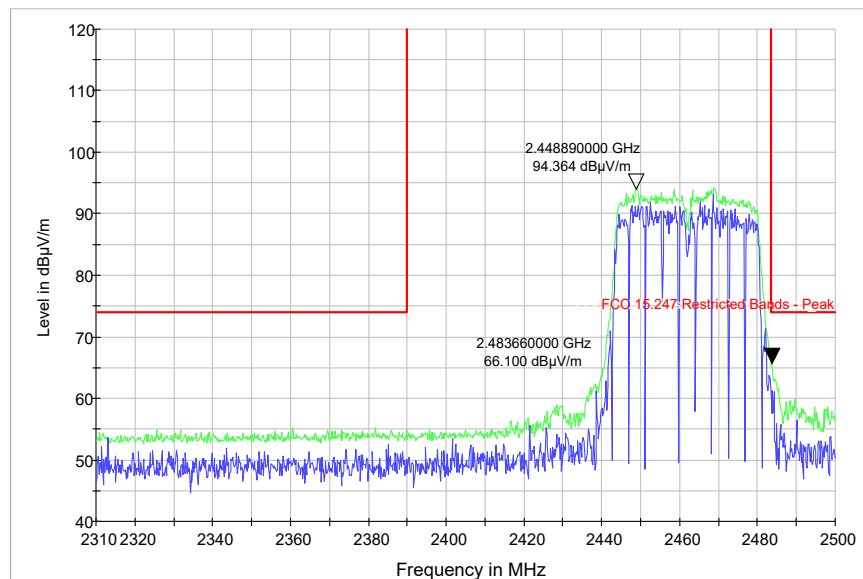


Plot 9-330 Radiated Band Edge Peak 802.11n20 - Ch.11 (2462 MHz)



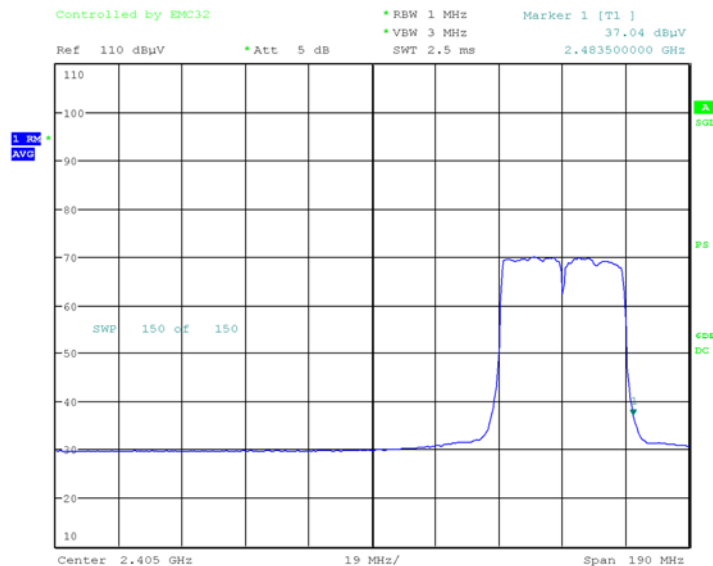
Date: 16.FEB.2019 15:30:17

Plot 9-331 Radiated Band Edge Average 802.11n20 - Ch.11 (2462 MHz)



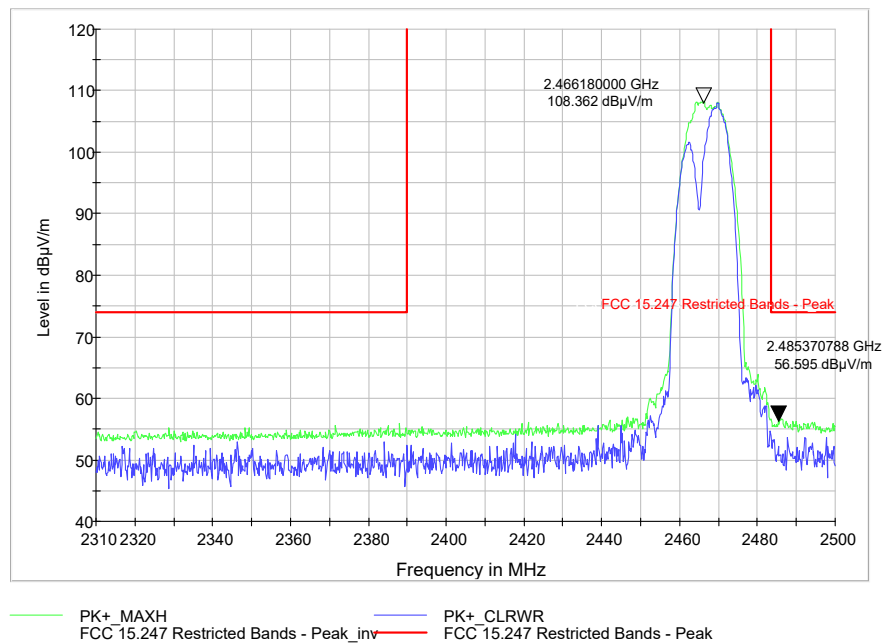
PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-332 Radiated Band Edge Peak 802.11n40 - Ch.11 (2462 MHz)

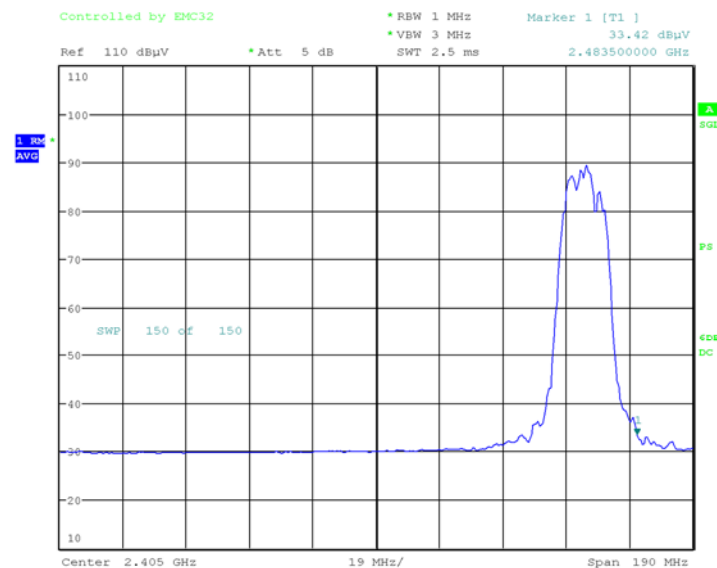


Date: 16.FEB.2019 16:54:58

Plot 9-333 Radiated Band Edge Average 802.11n40 - Ch.11 (2462 MHz)

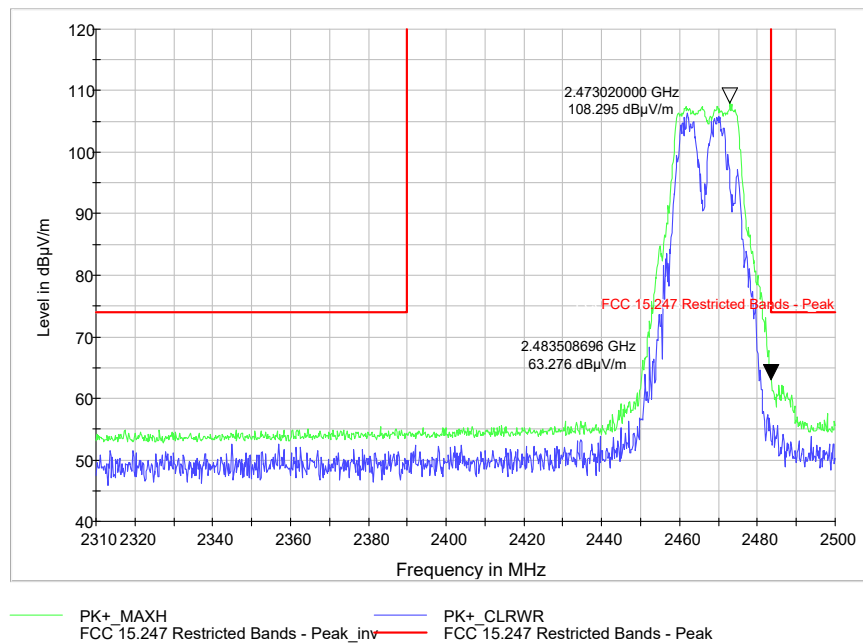


Plot 9-334 Radiated Band Edge Peak 802.11b - Ch.12 (2467 MHz)

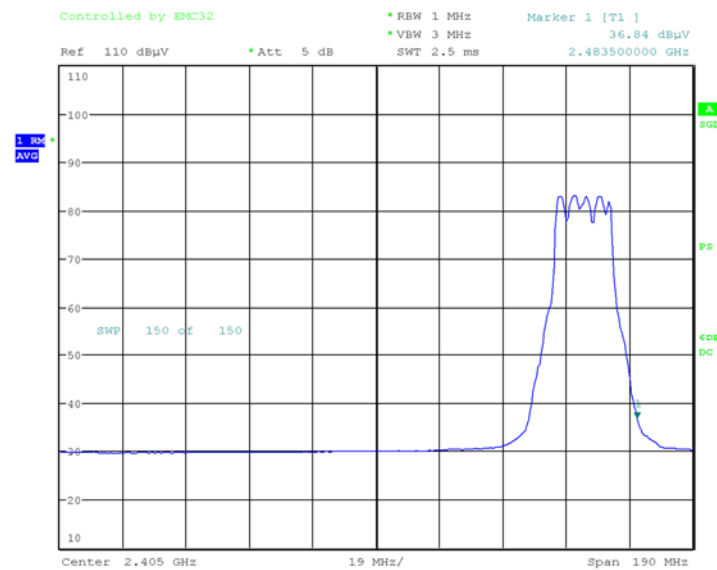


Date: 16.FEB.2019 12:31:13

Plot 9-335 Radiated Band Edge Average 802.11b - Ch.12 (2467 MHz)

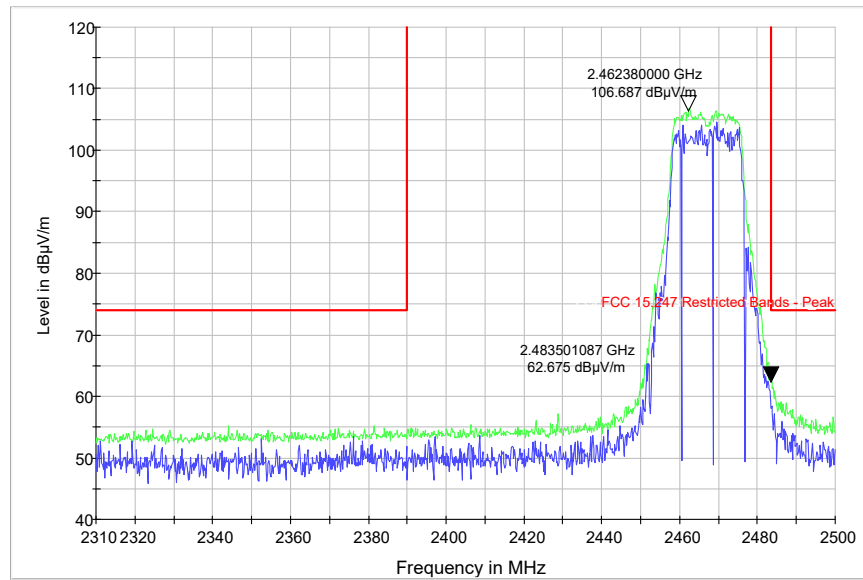


Plot 9-336 Radiated Band Edge Peak 802.11g - Ch.12 (2467 MHz)

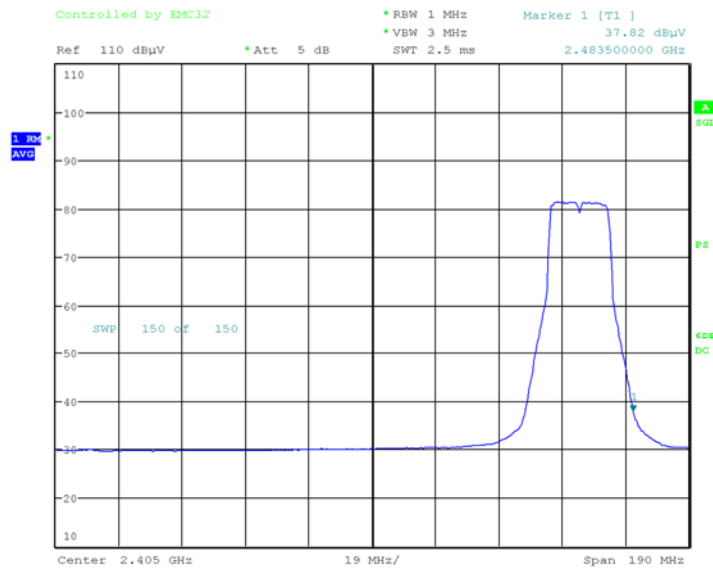


Date: 15.FEB.2019 21:47:06

Plot 9-337 Radiated Band Edge Average 802.11g - Ch.12 (2467 MHz)

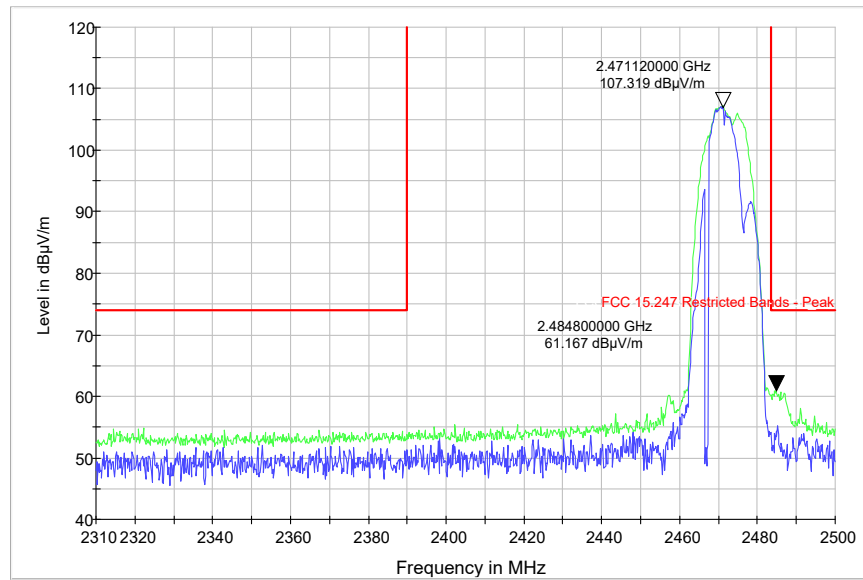


Plot 9-338 Radiated Band Edge Peak 802.11n20 - Ch.12 (2467 MHz)



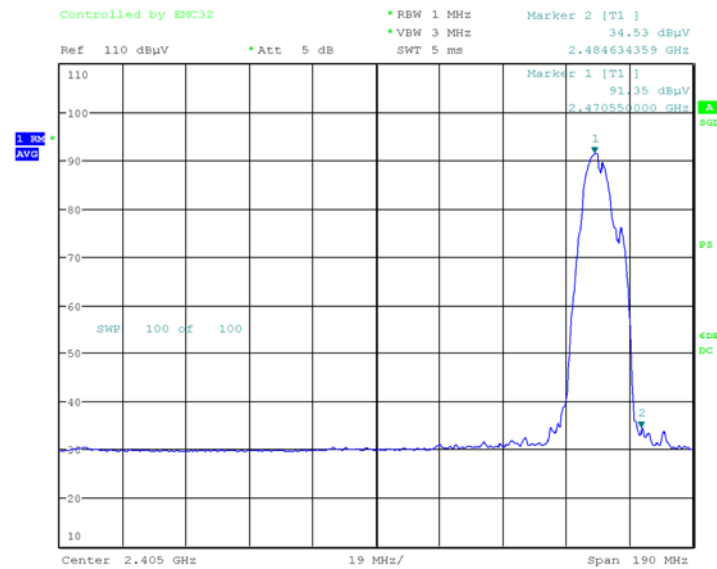
Date: 16.FEB.2019 15:16:47

Plot 9-339 Radiated Band Edge Average 802.11n20 - Ch.12 (2467 MHz)



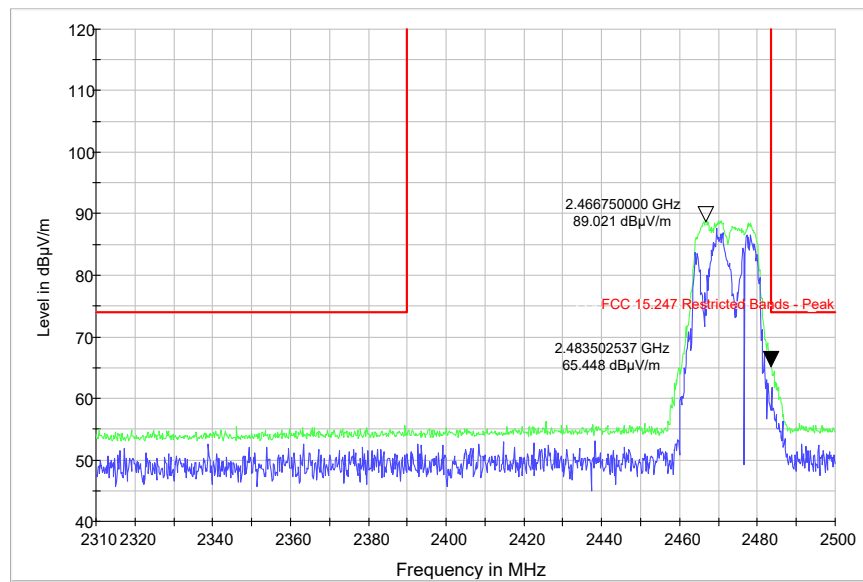
PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-340 Radiated Band Edge Peak 802.11b - Ch.13 (2472 MHz)



Date: 15.FEB.2019 00:25:11

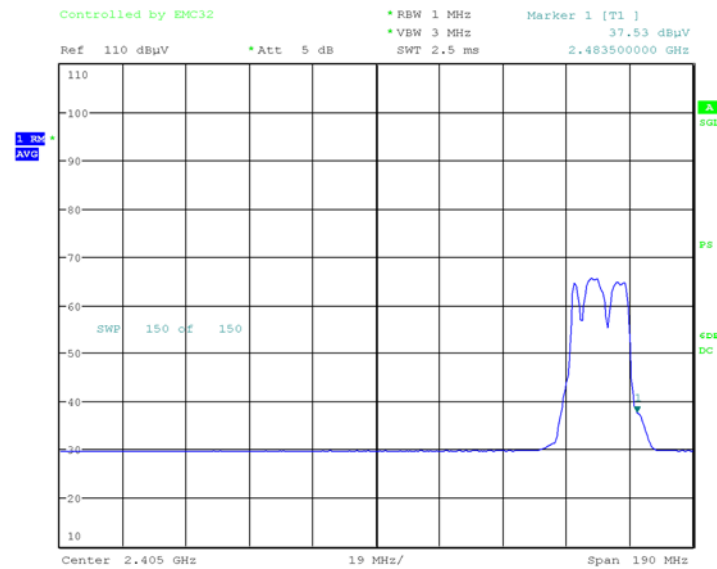
Plot 9-341 Radiated Band Edge Average 802.11b - Ch.13 (2472 MHz)



PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv

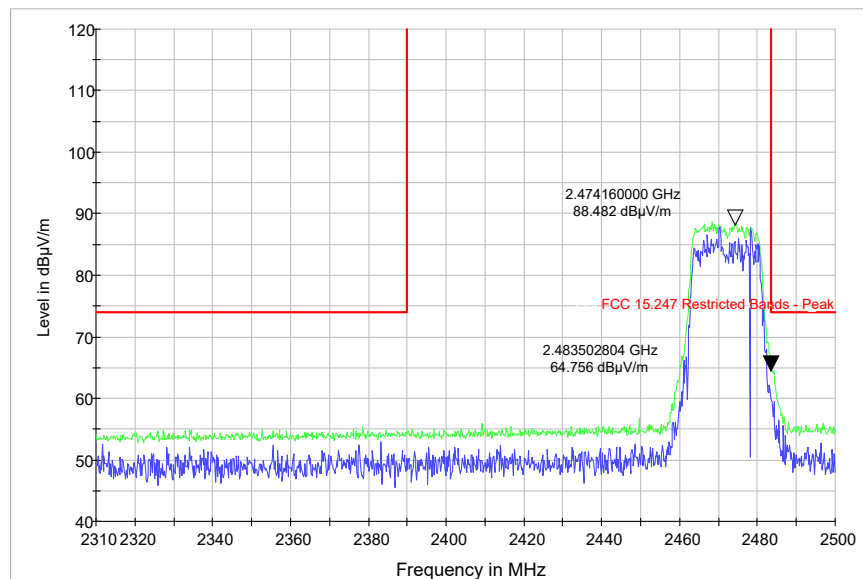
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-342 Radiated Band Edge Peak 802.11g - Ch.13 (2472 MHz)

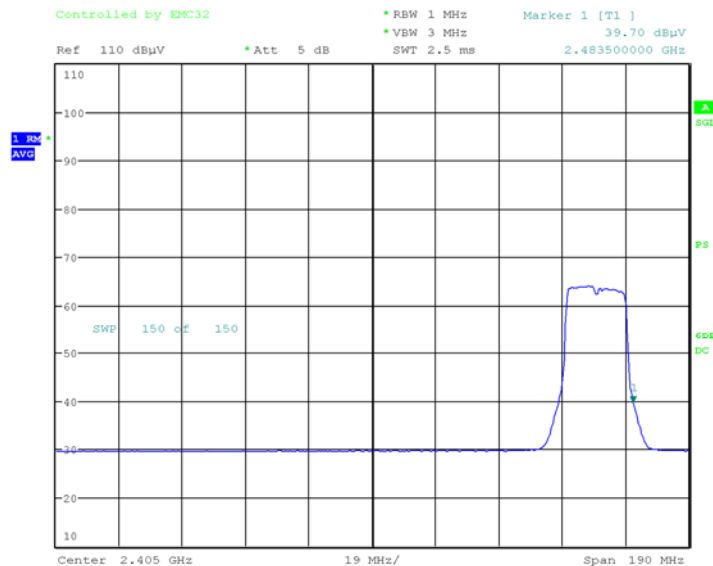


Date: 15.FEB.2019 21:23:56

Plot 9-343 Radiated Band Edge Average 802.11g - Ch.13 (2472 MHz)



Plot 9-344 Radiated Band Edge Peak 802.11n20 - Ch.13 (2472 MHz)

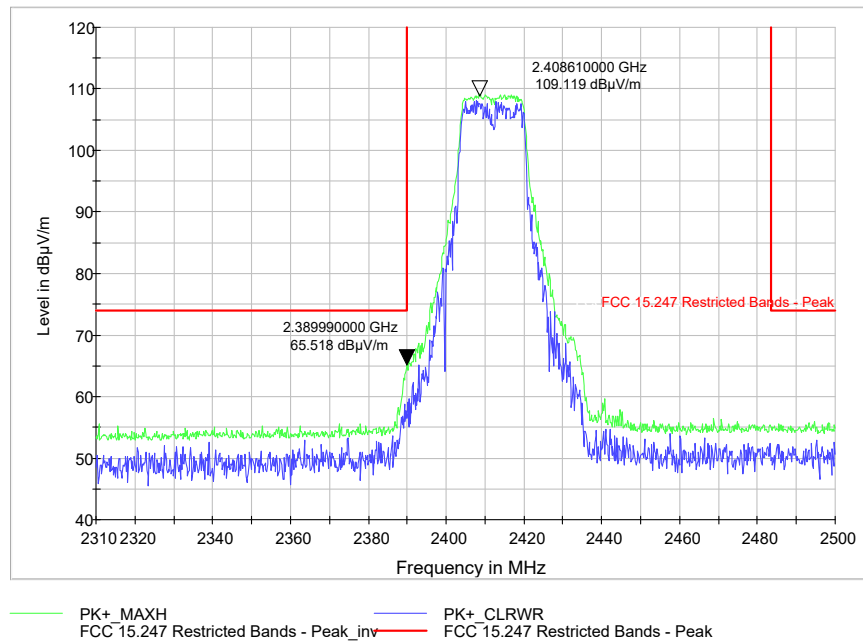


Date: 16.FEB.2019 15:03:08

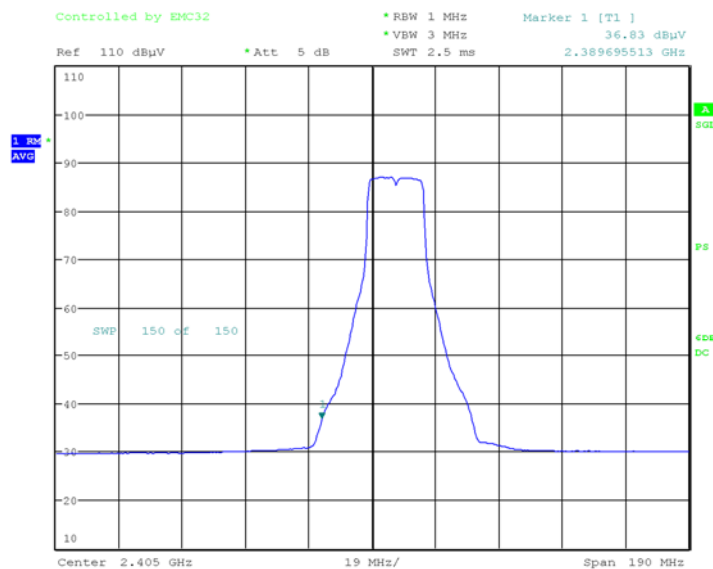
Plot 9-345 Radiated Band Edge Average 802.11n20 - Ch.13 (2472 MHz)

MIMO Band edge Average Data							
Carrier Frequency (MHz)	Spurious Frequency (MHz)	Raw Avg. Amplitude (dBμV)	System Correction Factor (dB)	Duty cycle correction factor(dB)	Corrected Avg. Field Strength (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)
802.11b mode							
2412	2387.02	33.86	12.7	0	46.56	54	-7.44
2462	2488.06	32.69	13.2	0	45.89	54	-8.11
2467	2483.50	33.42	13.2	0	46.62	54	-7.38
2472	2484.63	34.53	13.2	0	47.73	54	-6.27
802.11g mode							
2412	2389.69	33.28	12.7	0.16	46.14	54	-7.86
2457	2483.50	32.16	13.2	0.16	45.52	54	-8.48
2462	2483.50	34.56	13.2	0.16	47.92	54	-6.08
2467	2483.50	36.84	13.2	0.16	50.20	54	-3.80
2472	2483.50	37.53	13.2	0.16	50.89	54	-3.11
802.11n20 mode							
2412	2389.88	38.61	12.7	0.21	51.52	54	-2.48
2457	2483.50	32.02	13.2	0.21	45.43	54	-8.57
2462	2483.50	37.68	13.2	0.21	51.09	54	-2.91
2467	2483.50	37.82	13.2	0.21	51.23	54	-2.77
2472	2483.50	39.70	13.2	0.21	53.11	54	0.89
802.11n40 mode							
2422	2390.00	38.17	12.8	0.77	51.74	54	-2.26
2427	2390.00	39.20	12.8	0.77	52.77	54	-1.23
2432	2390.00	38.36	12.8	0.77	51.93	54	-2.07
2447	2483.50	37.96	13.2	0.77	51.93	54	-2.07
2452	2483.50	38.24	13.2	0.77	52.21	54	-1.79
2457	2483.50	38.77	13.2	0.77	52.74	54	-1.26
2462	2483.50	37.04	13.2	0.77	51.01	54	-2.99

9.8.5.6 Radiated restricted Band-edge emissions (SISO Path A)

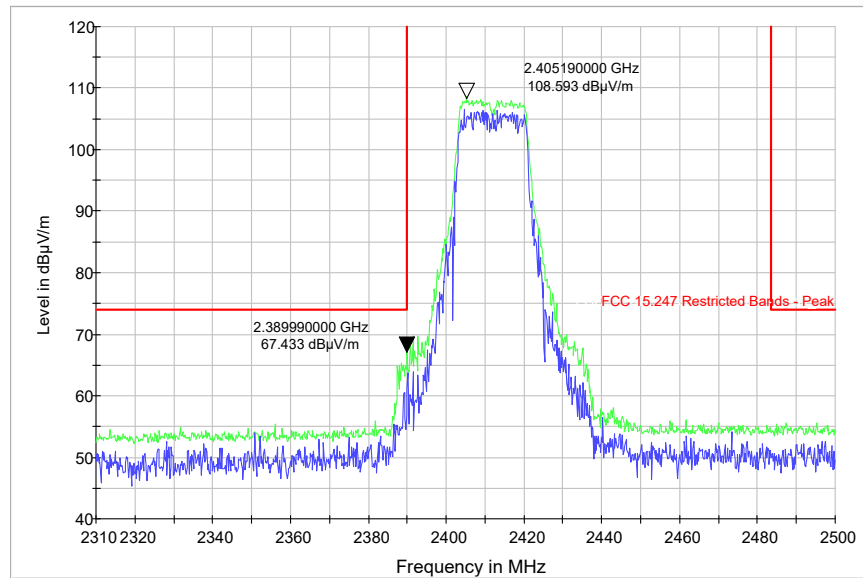


Plot 9-346 Radiated Band Edge Peak 802.11g - Ch.1 (2412 MHz)



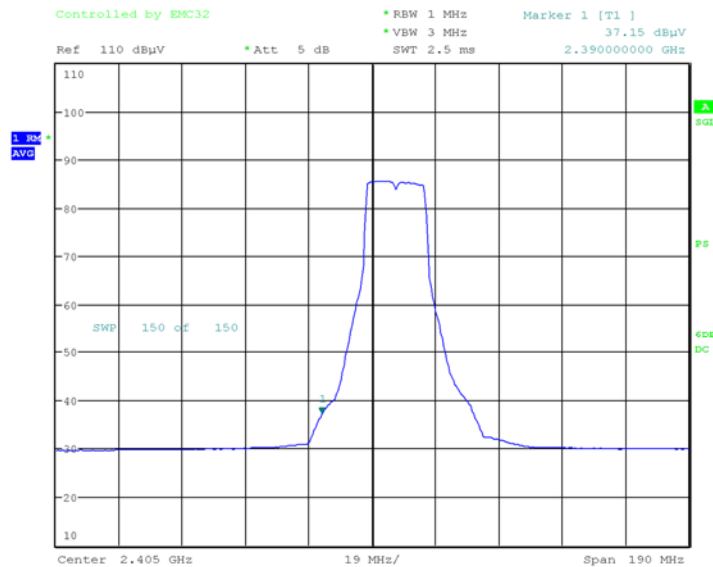
Date: 16.FEB.2019 21:14:36

Plot 9-347 Radiated Band Edge Average 802.11g - Ch.1 (2412 MHz)



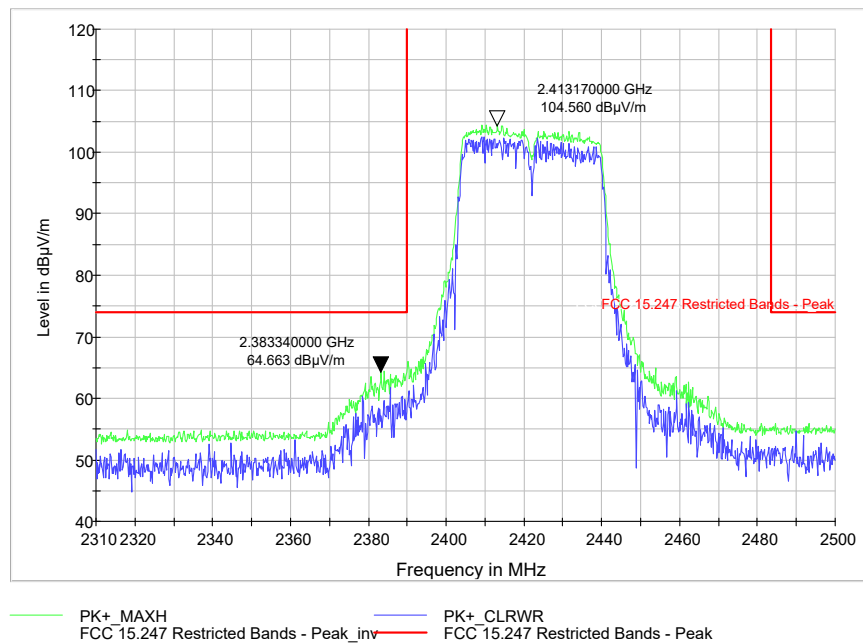
PK+_MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+_CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-348 Radiated Band Edge Peak 802.11n20 - Ch.1 (2412 MHz)

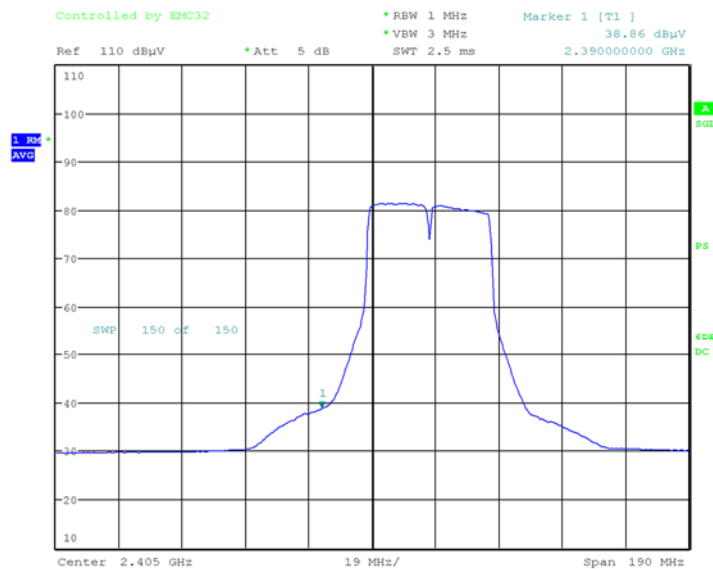


Date: 16.FEB.2019 21:28:48

Plot 9-349 Radiated Band Edge Average 802.11n20 - Ch.1 (2412 MHz)

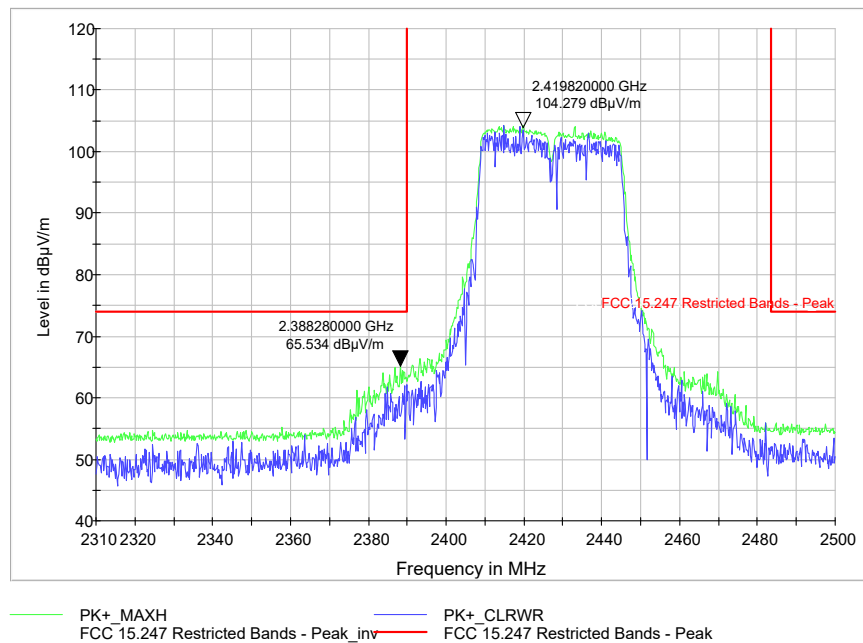


Plot 9-350 Radiated Band Edge Peak 802.11n40 - Ch.3 (2422 MHz)

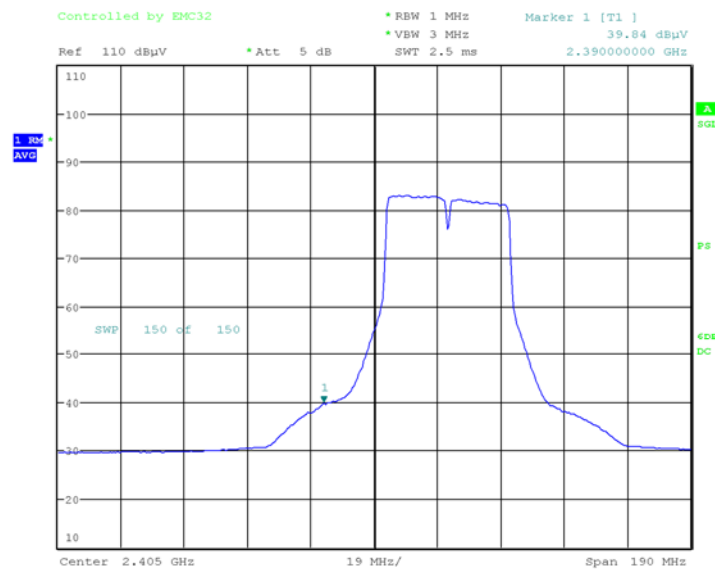


Date: 16.FEB.2019 21:49:41

Plot 9-351 Radiated Band Edge Average 802.11n40 - Ch.3 (2422 MHz)

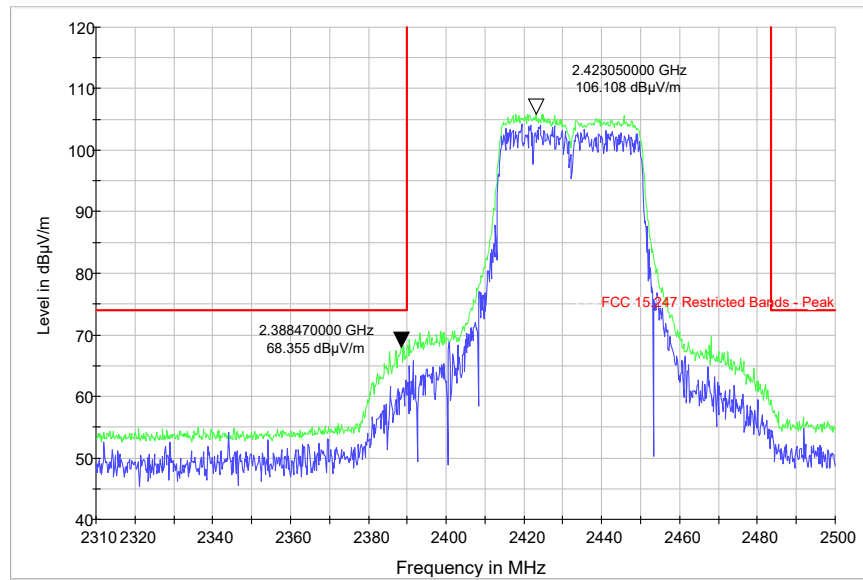


Plot 9-352 Radiated Band Edge Peak 802.11n40 - Ch.4 (2427 MHz)

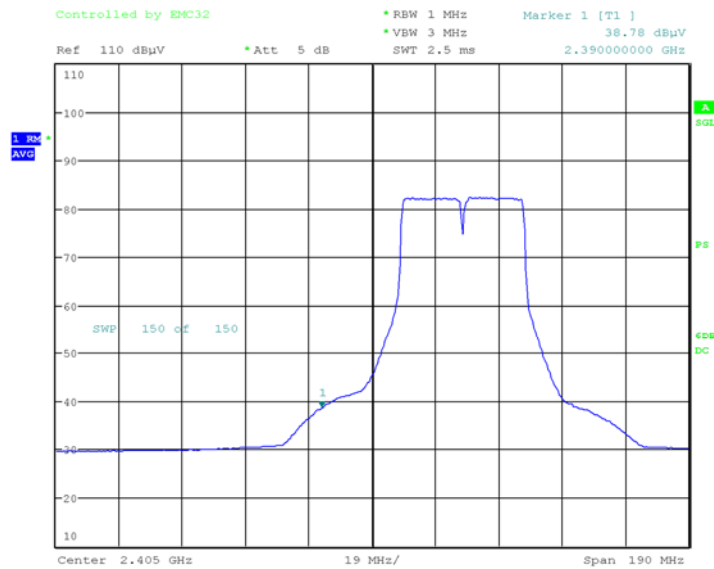


Date: 16.FEB.2019 22:06:41

Plot 9-353 Radiated Band Edge Average 802.11n40 - Ch.4 (2427 MHz)

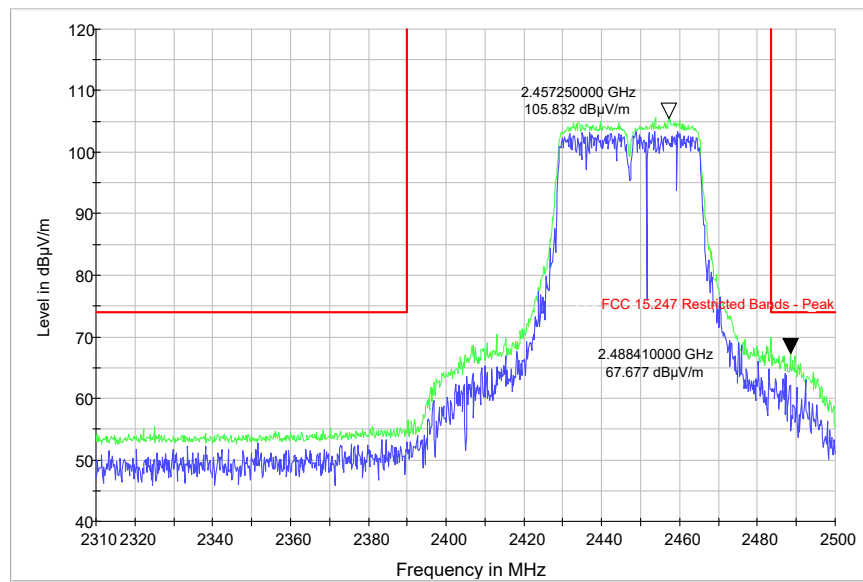


Plot 9-354 Radiated Band Edge Peak 802.11n40 - Ch.5 (2432 MHz)

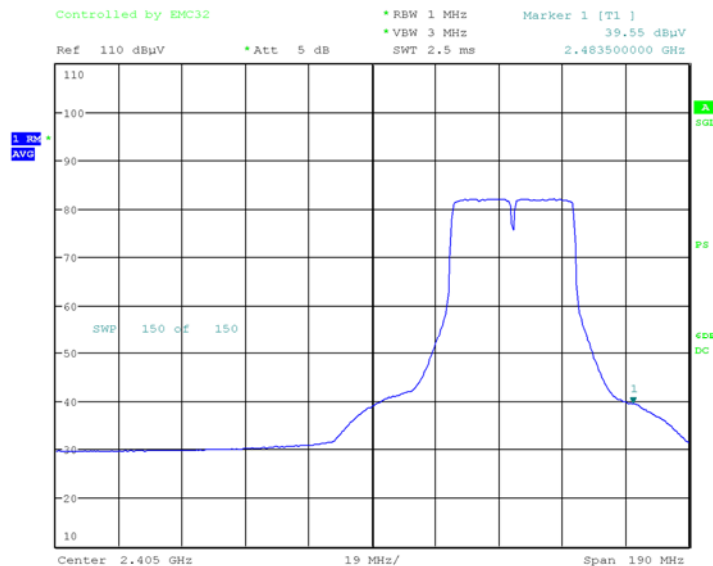


Date: 16.FEB.2019 22:22:52

Plot 9-355 Radiated Band Edge Average 802.11n40 - Ch.5 (2432 MHz)

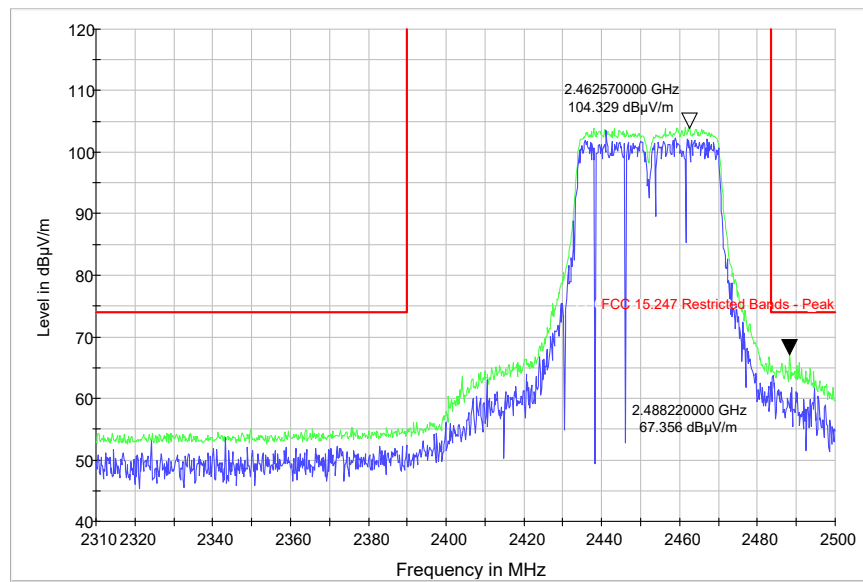


Plot 9-356 Radiated Band Edge Peak 802.11n40 - Ch.8 (2447 MHz)

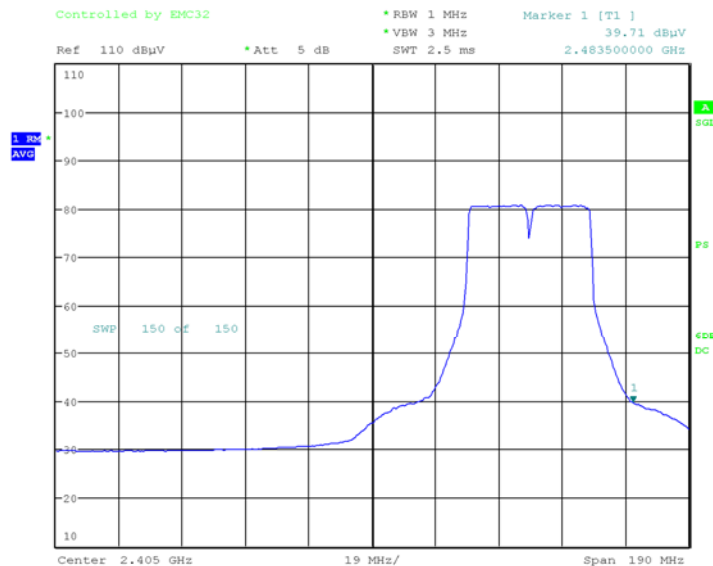


Date: 16.FEB.2019 22:38:33

Plot 9-357 Radiated Band Edge Average 802.11n40 - Ch.8 (2447 MHz)

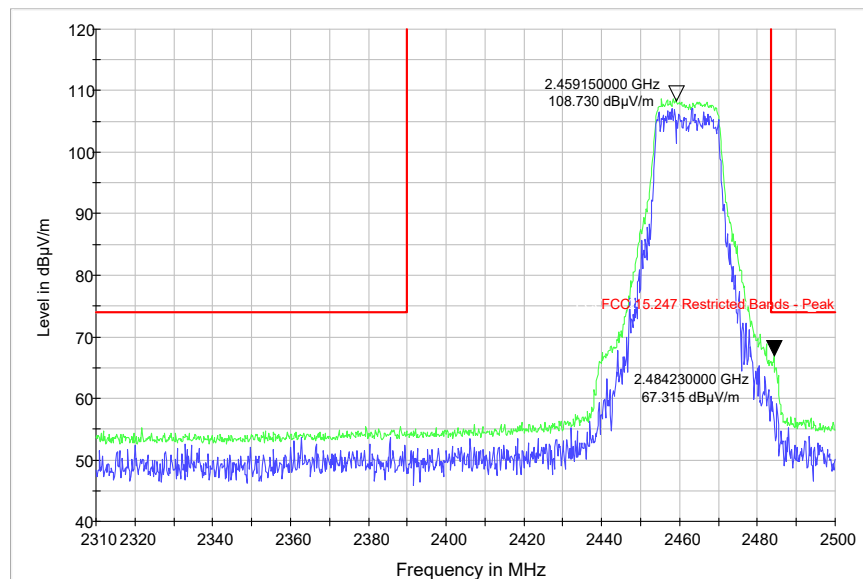


Plot 9-358 Radiated Band Edge Peak 802.11n40 - Ch.9 (2452 MHz)

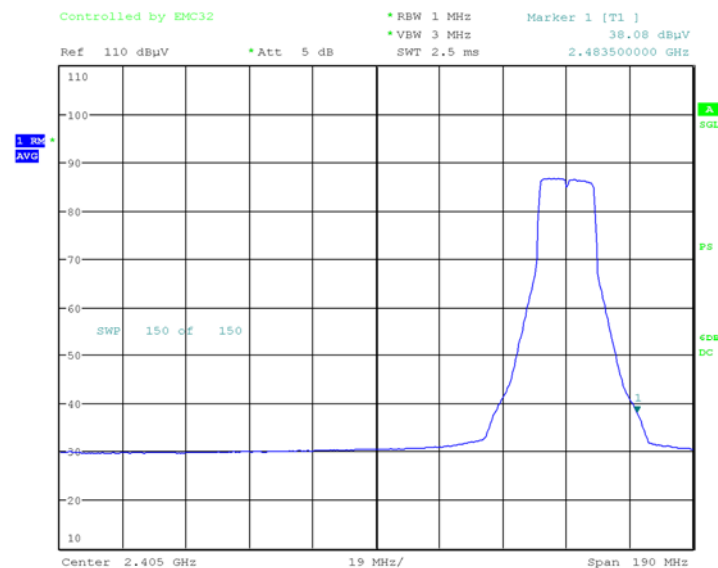


Date: 16.FEB.2019 22:50:20

Plot 9-359 Radiated Band Edge Average 802.11n40 - Ch.9 (2452 MHz)

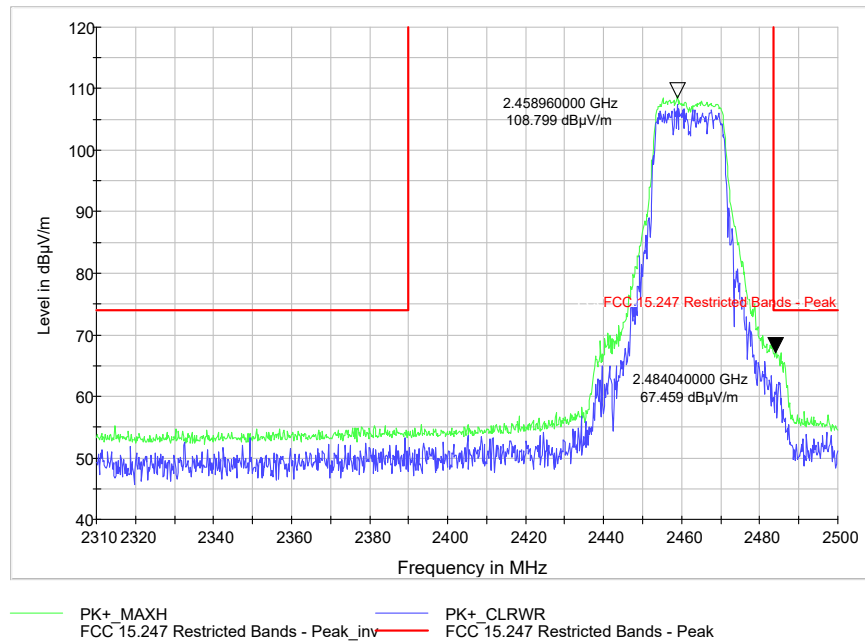


Plot 9-360 Radiated Band Edge Peak 802.11g - Ch.11 (2462 MHz)

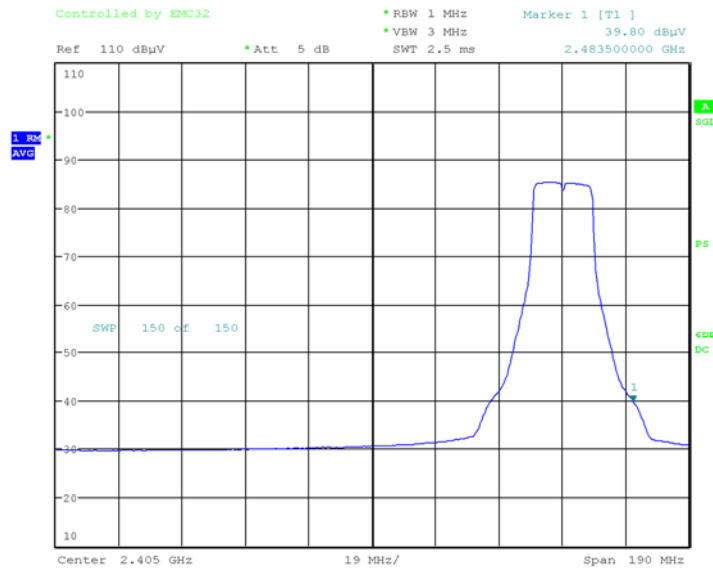


Date: 17.FEB.2019 19:59:26

Plot 9-361 Radiated Band Edge Average 802.11g - Ch.11 (2462 MHz)

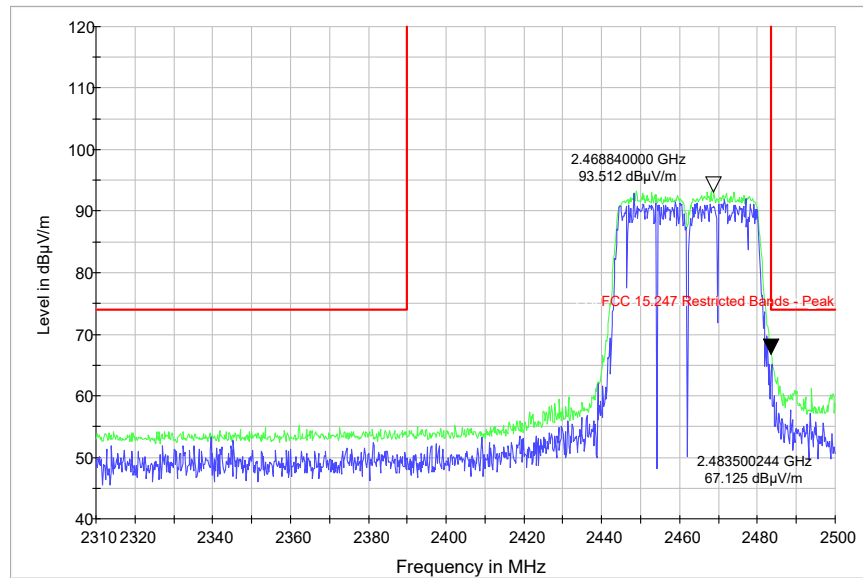


Plot 9-362 Radiated Band Edge Peak 802.11n20 - Ch.11 (2462 MHz)



Date: 17.FEB.2019 19:48:42

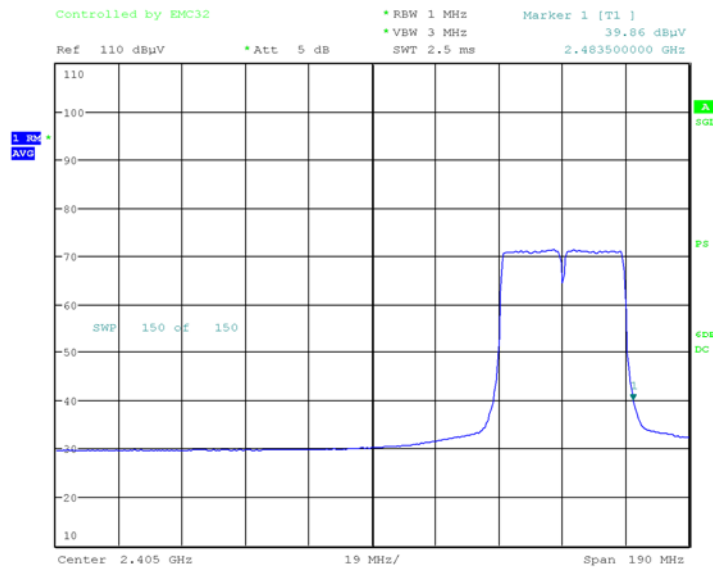
Plot 9-363 Radiated Band Edge Average 802.11n20 - Ch.11 (2462 MHz)



PK+_MAXH
FCC 15.247 Restricted Bands - Peak_inv

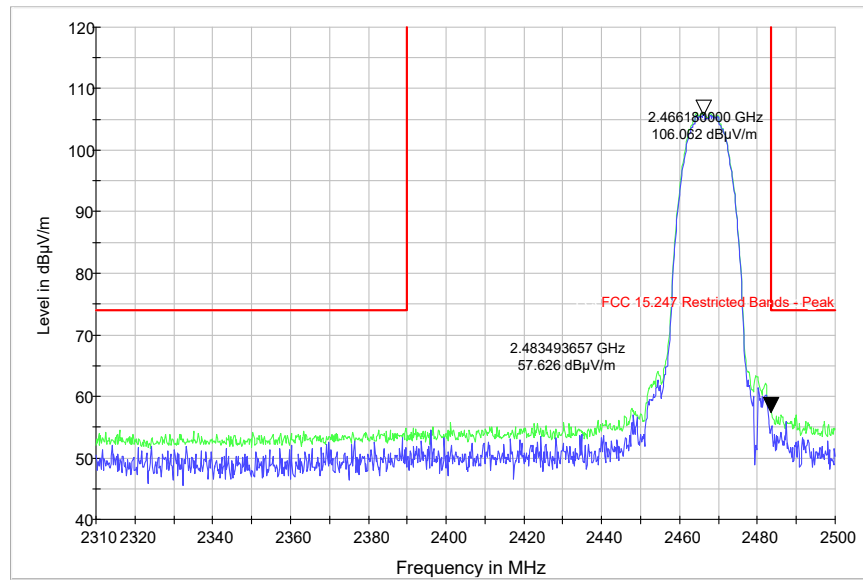
PK+_CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-364 Radiated Band Edge Peak 802.11n40 - Ch.11 (2462 MHz)



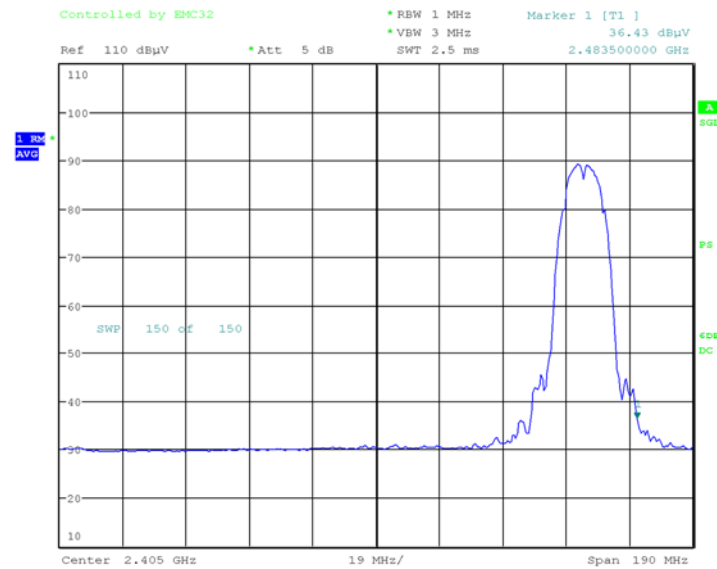
Date: 17.FEB.2019 19:32:35

Plot 9-365 Radiated Band Edge Average 802.11n40 - Ch.11 (2462 MHz)



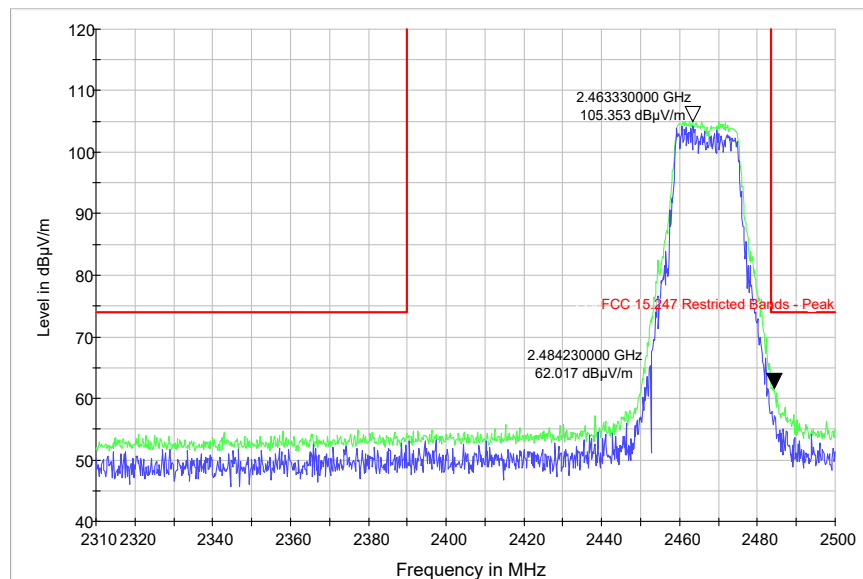
PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-366 Radiated Band Edge Peak 802.11b - Ch.12 (2467 MHz)

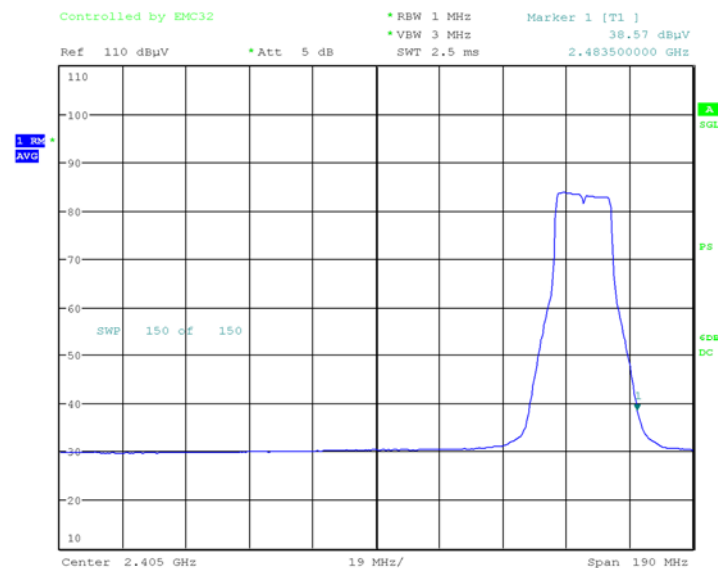


Date: 17.FEB.2019 18:07:09

Plot 9-367 Radiated Band Edge Average 802.11b - Ch.12 (2467 MHz)

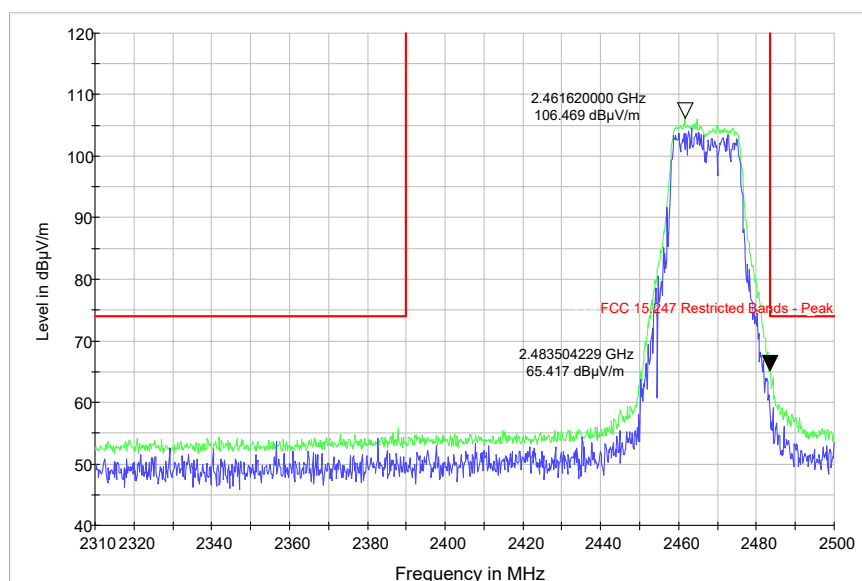


Plot 9-368 Radiated Band Edge Peak 802.11g - Ch.12 (2467 MHz)



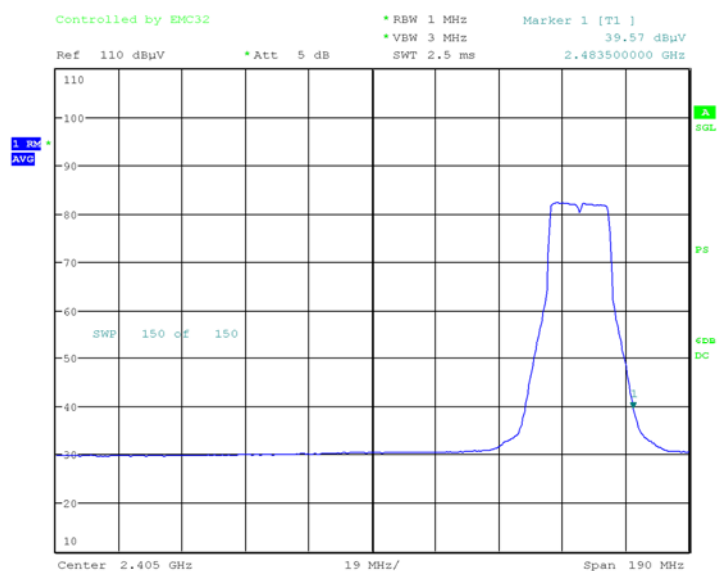
Date: 17.FEB.2019 18:40:59

Plot 9-369 Radiated Band Edge Average 802.11g - Ch.12 (2467 MHz)



PK+_{MAXH} PK+_{CLRWR}
FCC 15.247 Restricted Bands - Peak inv FCC 15.247 Restricted Bands - Peak

Plot 9-370 Radiated Band Edge Peak 802.11n20 - Ch.12 (2467 MHz)

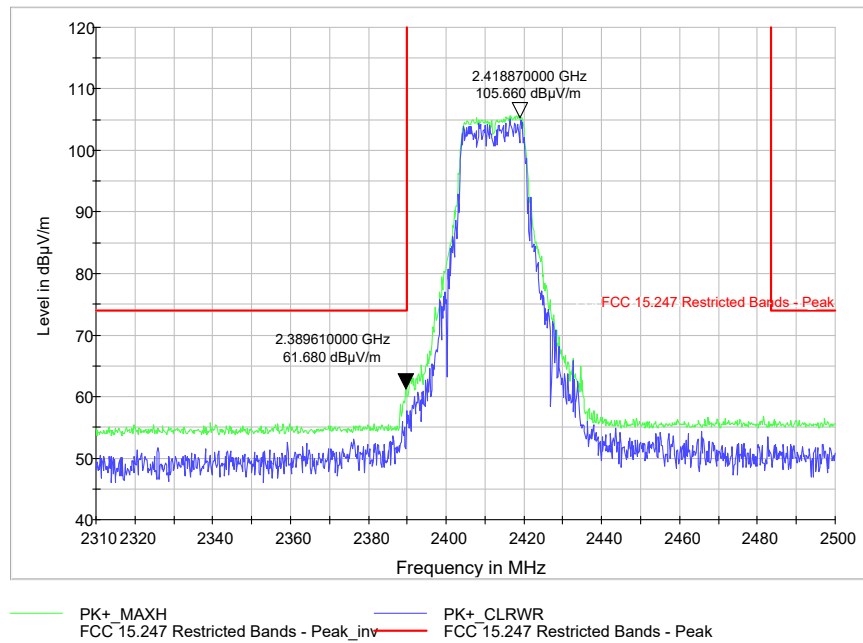


Date: 17.FEB.2019 18:56:05

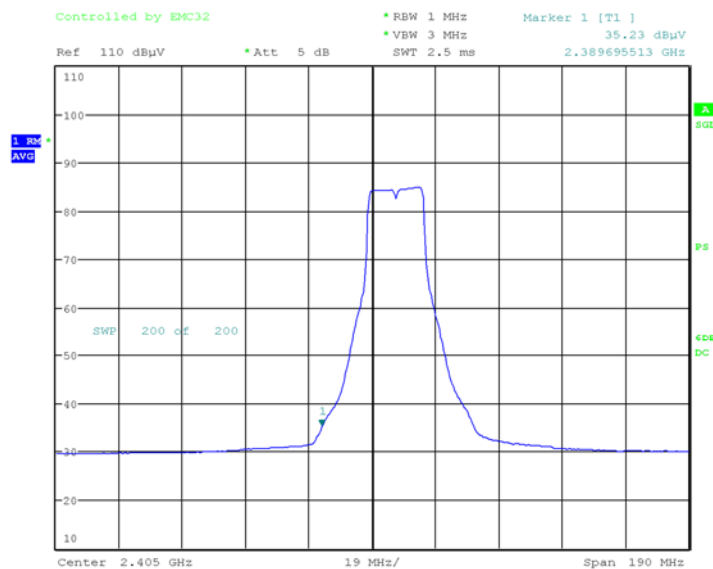
Plot 9-371 Radiated Band Edge Average 802.11n20 - Ch.12 (2467 MHz)

SISO Path A Band Edge Average Data							
Carrier Frequency (MHz)	Spurious Frequency (MHz)	Raw Avg. Amplitude (dBμV)	System Correction Factor (dB)	Duty cycle correction factor(dB)	Corrected Avg. Field Strength (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)
802.11b mode							
2467	2483.50	36.43	13.2	0	49.63	54	-4.37
802.11g mode							
2412	2389.69	36.83	12.8	0.11	49.74	54	-4.27
2462	2483.50	38.08	13.2	0.11	51.39	54	-2.62
2467	2483.50	38.57	13.2	0.11	51.88	54	-2.13
802.11n20 mode							
2412	2390.00	37.15	12.8	0.09	50.04	54	-3.96
2462	2483.50	39.80	13.2	0.09	53.09	54	-0.91
2467	2483.50	39.57	13.2	0.09	52.86	54	-1.14
802.11n40 mode							
2422	2390.00	38.86	12.8	0.31	51.97	54	-2.03
2427	2390.00	39.84	12.8	0.31	52.95	54	-1.05
2432	2390.00	38.78	12.8	0.31	51.89	54	-2.11
2447	2483.50	39.55	13.2	0.31	53.06	54	-0.94
2452	2483.50	39.71	13.2	0.31	53.22	54	-0.78
2462	2483.50	39.86	13.2	0.31	53.37	54	-0.63

9.8.5.7 Radiated restricted Band-edge emissions (SISO Path B)

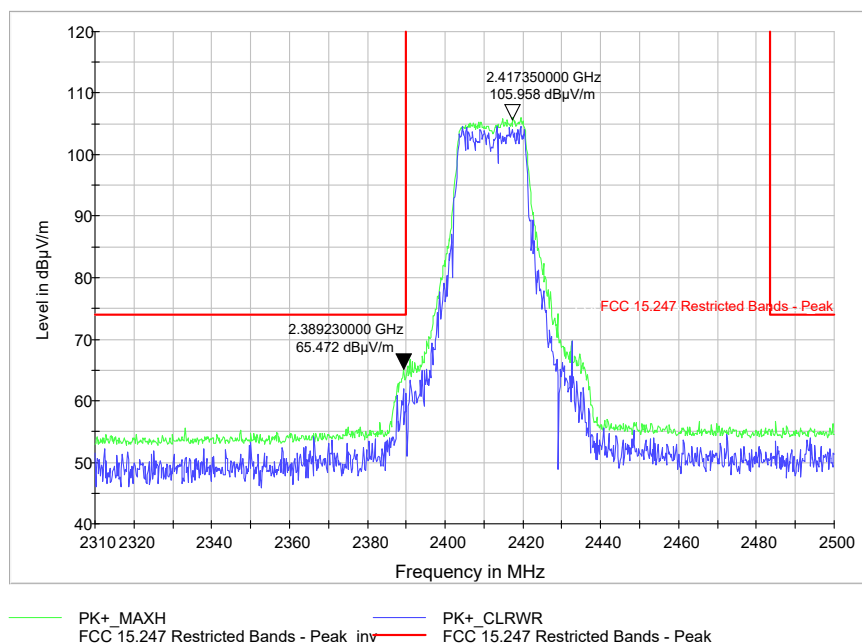


Plot 9-377 Radiated Band Edge Peak 802.11g - Ch.1 (2412 MHz)

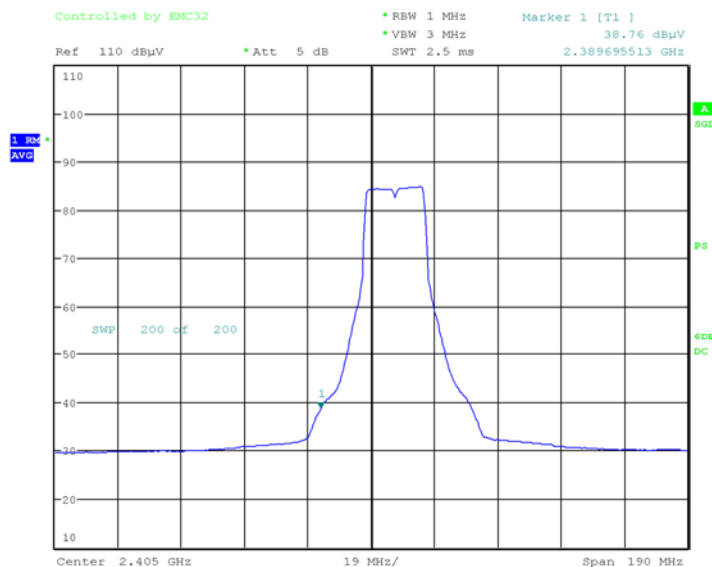


Date: 18.FEB.2019 14:16:37

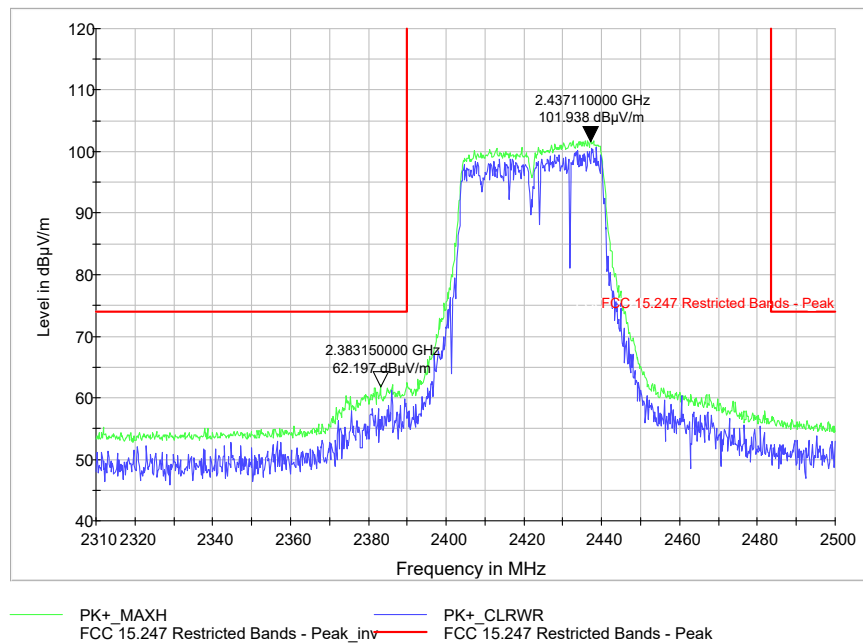
Plot 9-378 Radiated Band Edge Average 802.11g - Ch.1 (2412 MHz)



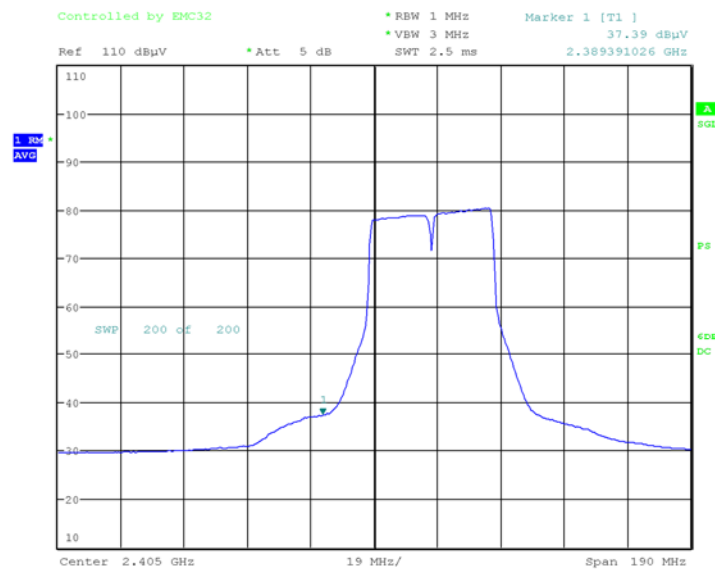
Plot 9-379 Radiated Band Edge Peak 802.11n20 - Ch.1 (2412 MHz)



Plot 9-380 Radiated Band Edge Average 802.11n20 - Ch.1 (2412 MHz)

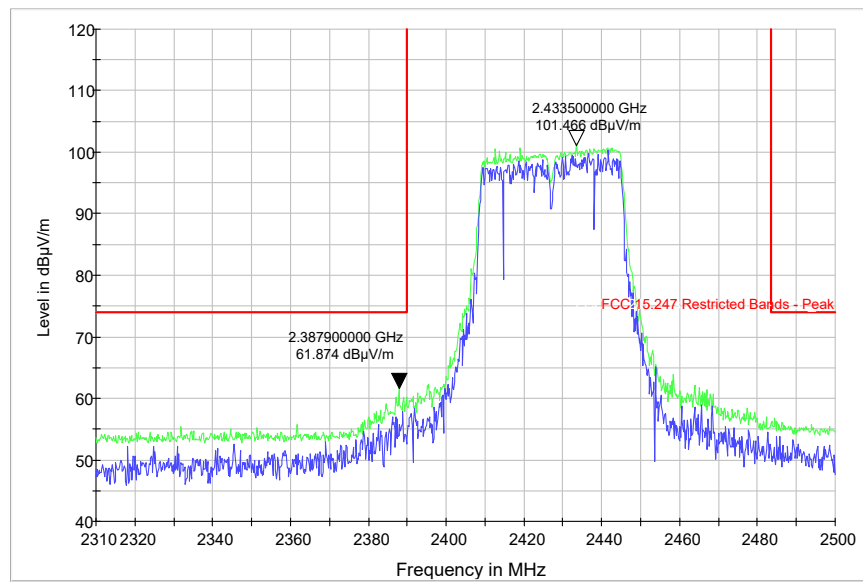


Plot 9-381 Radiated Band Edge Peak 802.11n40 - Ch.3 (2422 MHz)



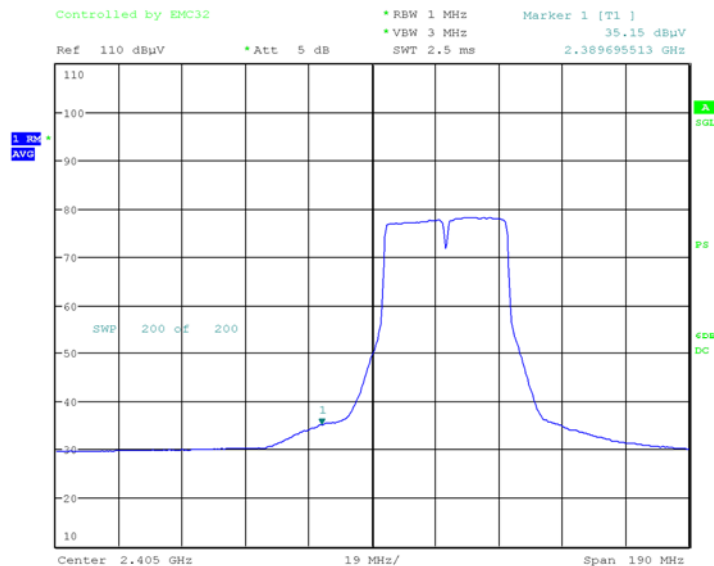
Date: 18.FEB.2019 16:35:01

Plot 9-382 Radiated Band Edge Average 802.11n40 - Ch.3 (2422 MHz)



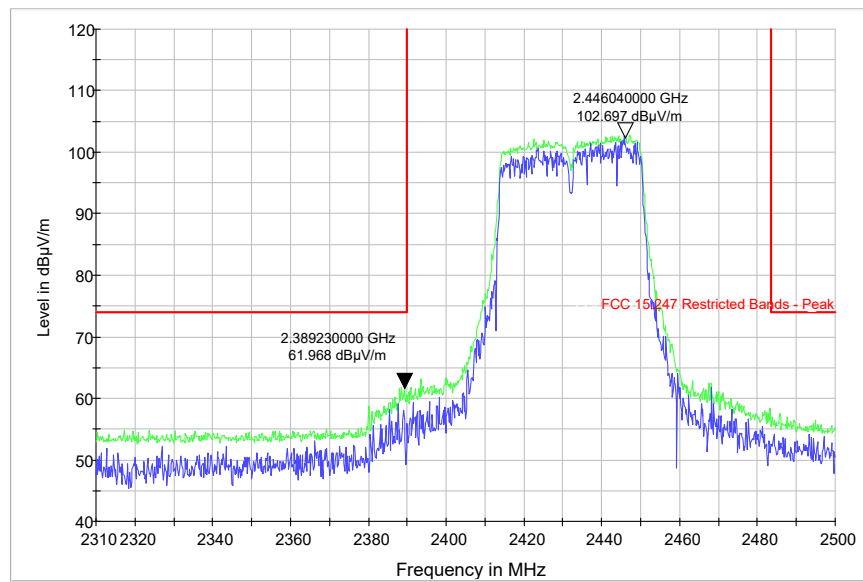
PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-383 Radiated Band Edge Peak 802.11n40 - Ch.4 (2427 MHz)



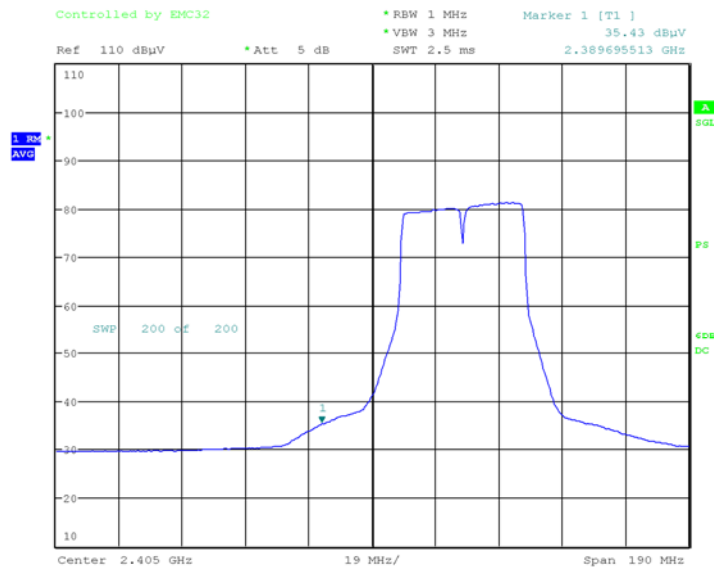
Date: 18.FEB.2019 16:57:47

Plot 9-384 Radiated Band Edge Average 802.11n40 - Ch.4 (2427 MHz)



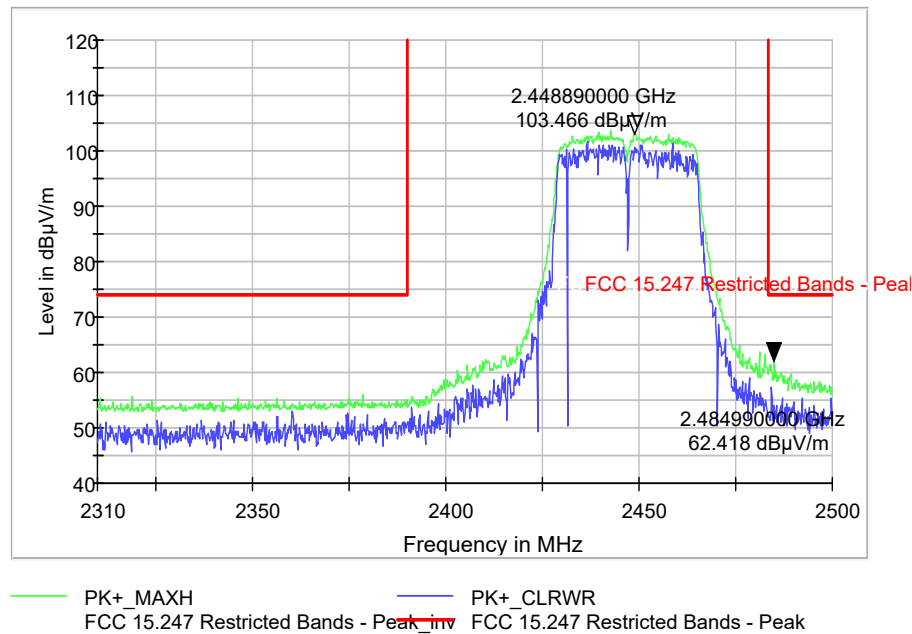
PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-385 Radiated Band Edge Peak 802.11n40 - Ch.5 (2432 MHz)

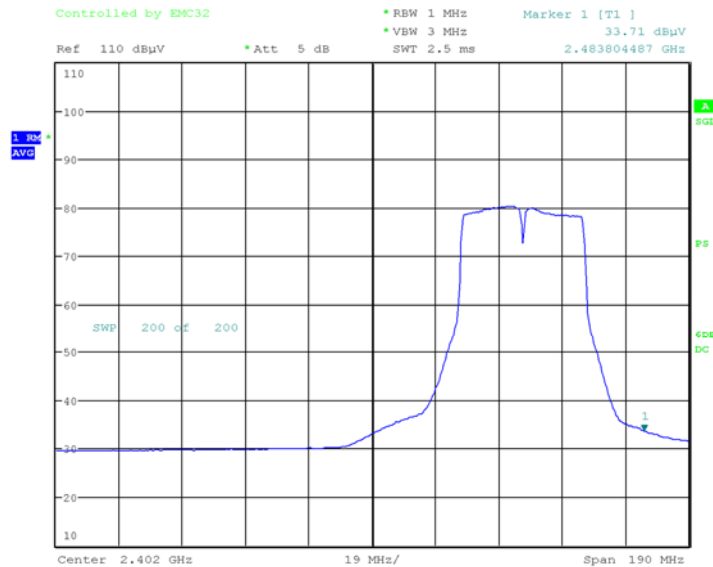


Date: 18.FEB.2019 17:32:33

Plot 9-386 Radiated Band Edge Average 802.11n40 - Ch.5 (2432 MHz)

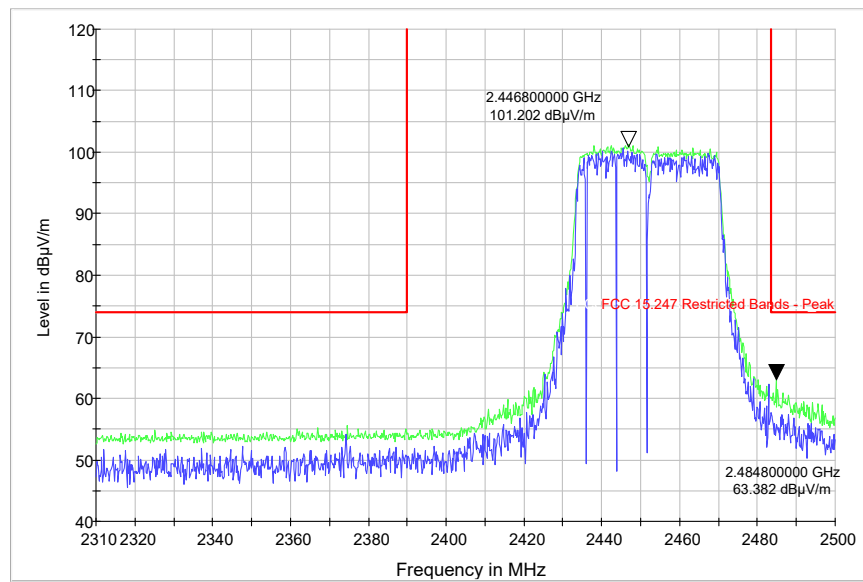


Plot 9-387 Radiated Band Edge Peak 802.11n40 - Ch.8 (2447 MHz)

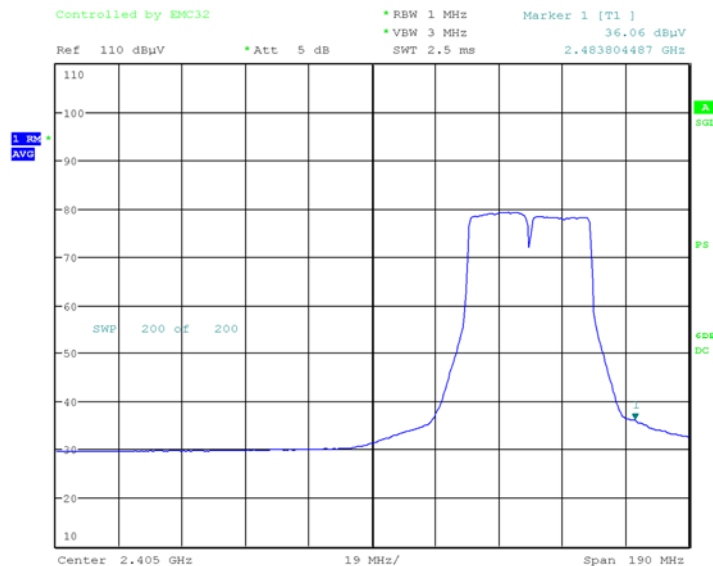


Date: 18.FEB.2019 18:16:20

Plot 9-388 Radiated Band Edge Average 802.11n40 - Ch.8 (2447 MHz)

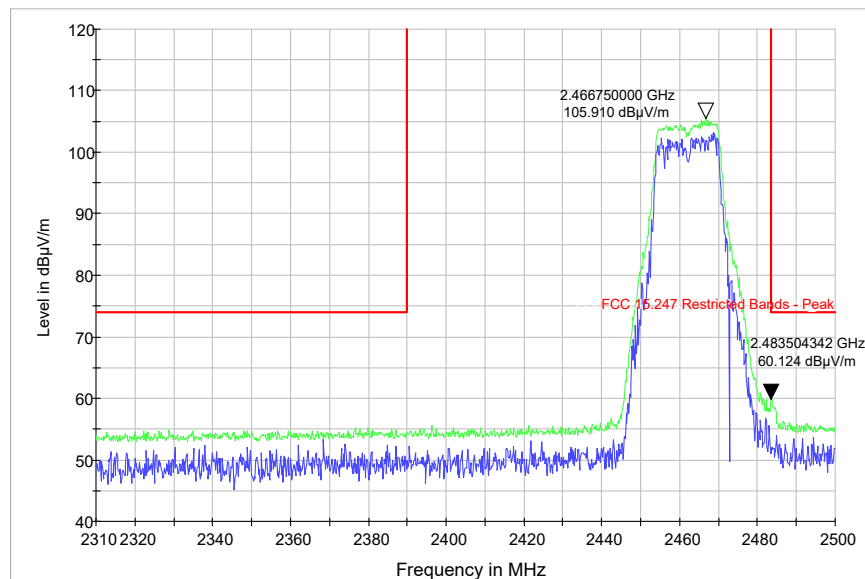


Plot 9-389 Radiated Band Edge Peak 802.11n40 - Ch.9 (2452 MHz)



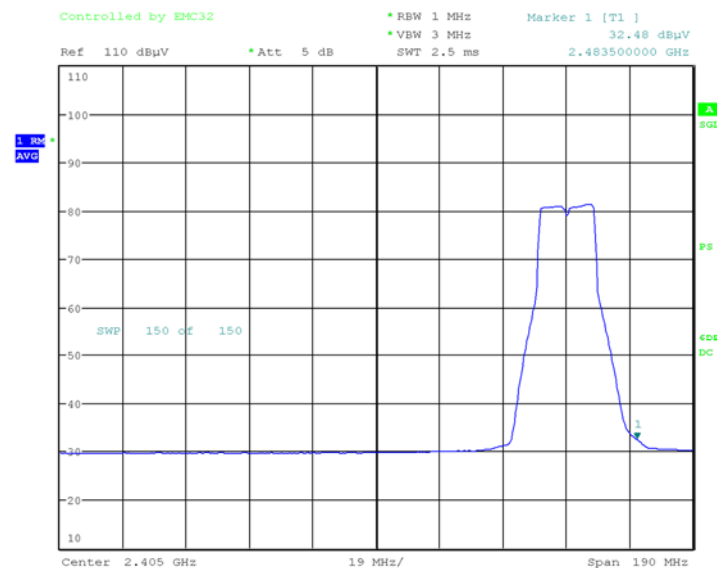
Date: 18.FEB.2019 18:45:13

Plot 9-390 Radiated Band Edge Average 802.11n40 - Ch.9 (2452 MHz)



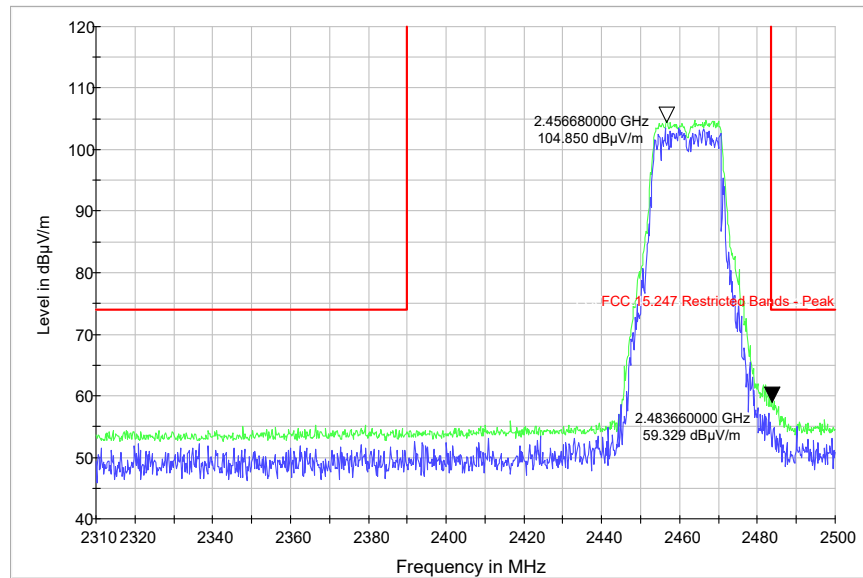
PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-391 Radiated Band Edge Peak 802.11g - Ch.11 (2462 MHz)



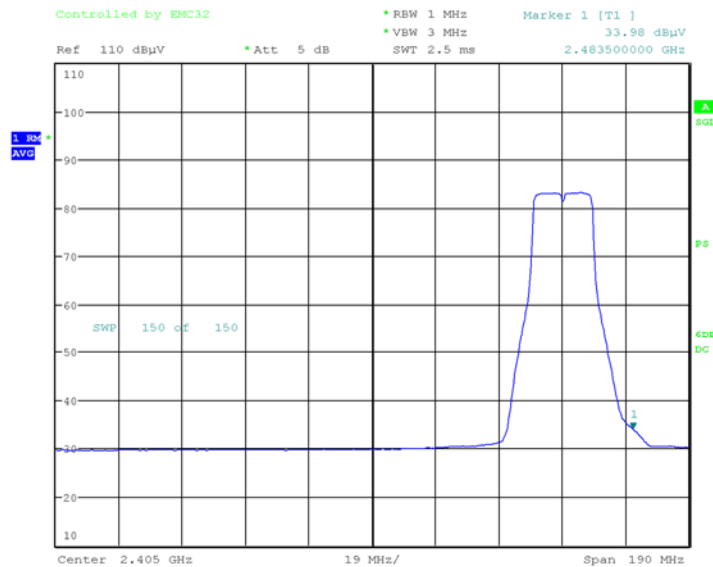
Date: 18.FEB.2019 19:52:01

Plot 9-392 Radiated Band Edge Average 802.11g - Ch.11 (2462 MHz)



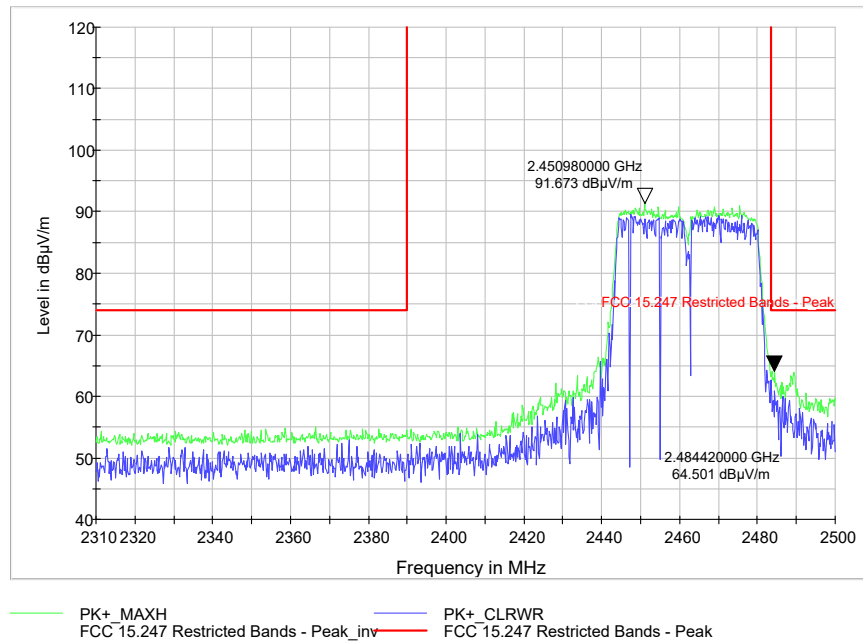
PK+ _MAXH
FCC 15.247 Restricted Bands - Peak_inv
PK+ _CLWR
FCC 15.247 Restricted Bands - Peak

Plot 9-393 Radiated Band Edge Peak 802.11n20 - Ch.11 (2462 MHz)

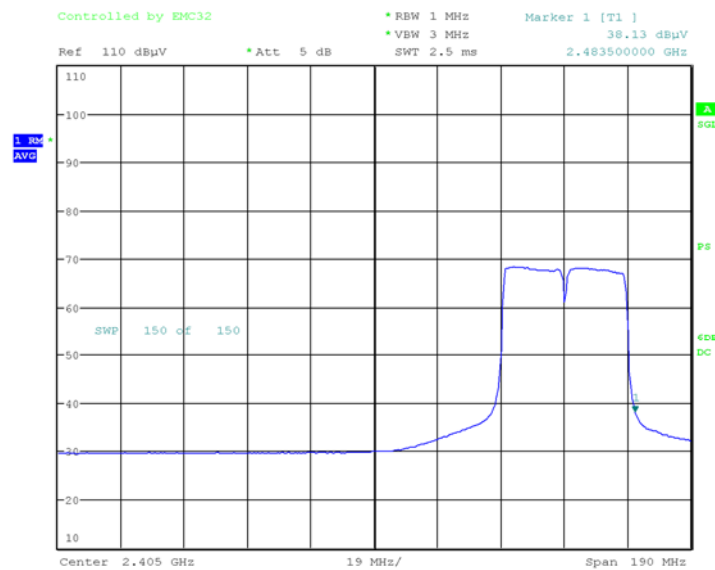


Date: 18.FEB.2019 20:05:18

Plot 9-394 Radiated Band Edge Average 802.11n20 - Ch.11 (2462 MHz)

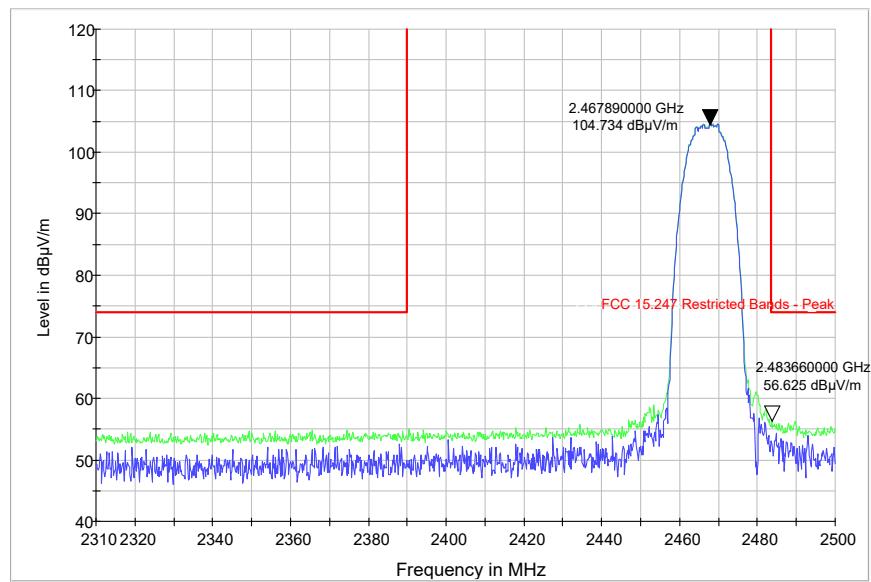


Plot 9-395 Radiated Band Edge Peak 802.11n40 - Ch.11 (2462 MHz)



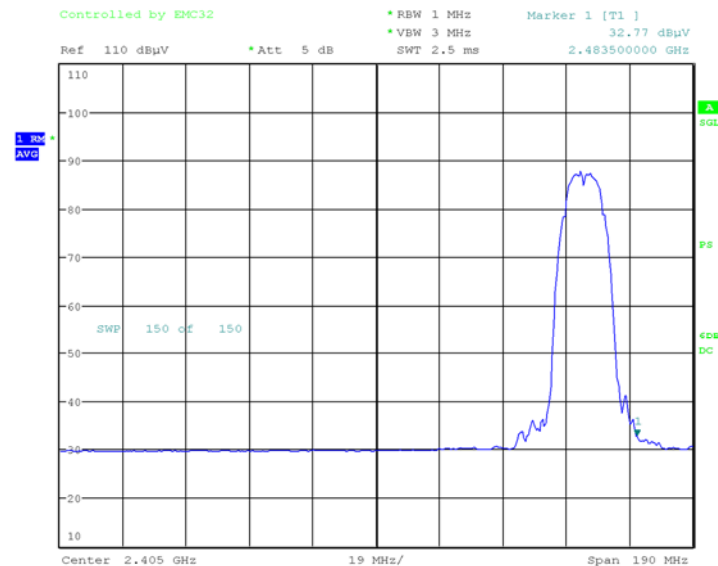
Date: 18.FEB.2019 20:15:46

Plot 9-396 Radiated Band Edge Average 802.11n40 - Ch.11 (2462 MHz)



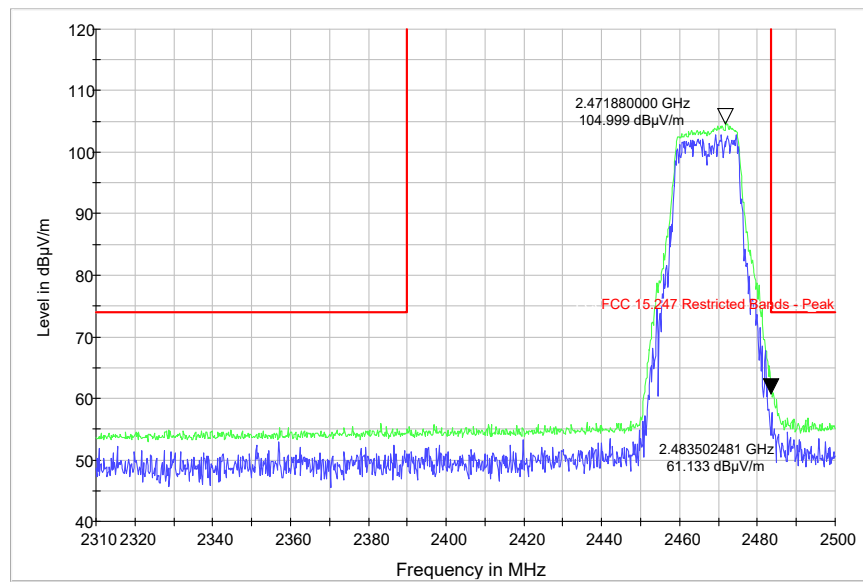
PK+ MAXH PK+_CLRWR
FCC 15.247 Restricted Bands - Peak_inv FCC 15.247 Restricted Bands - Peak

Plot 9-397 Radiated Band Edge Peak 802.11b - Ch.12 (2467 MHz)



Date: 18.FEB.2019 20:28:39

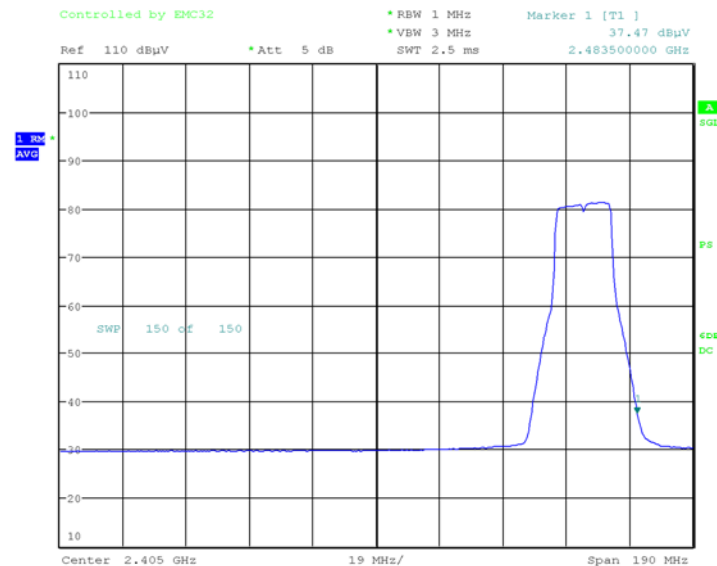
Plot 9-398 Radiated Band Edge Average 802.11b - Ch.12 (2467 MHz)



PK+ MAXH
FCC 15.247 Restricted Bands - Peak_inv

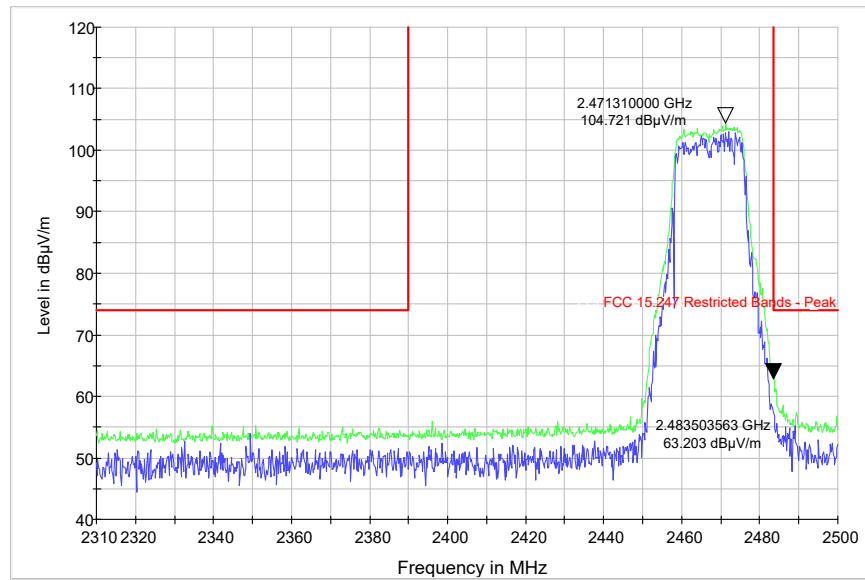
PK+ CLRWR
FCC 15.247 Restricted Bands - Peak

Plot 9-399 Radiated Band Edge Peak 802.11g - Ch.12 (2467 MHz)

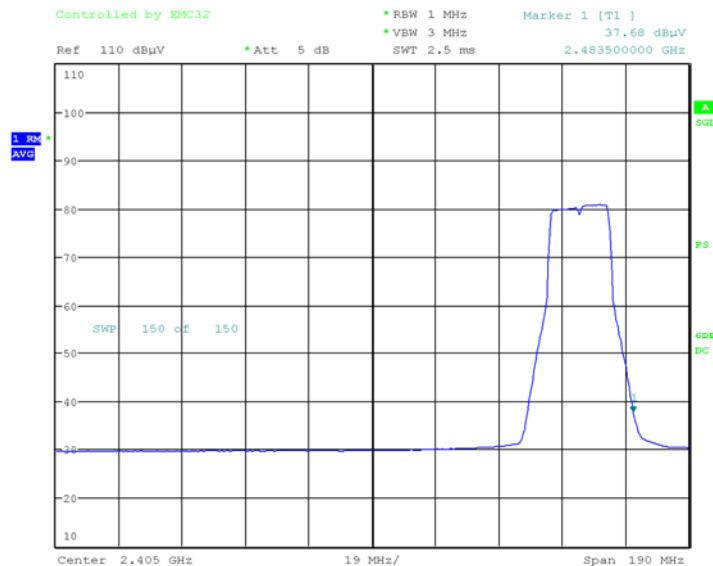


Date: 18.FEB.2019 20:56:14

Plot 9-400 Radiated Band Edge Average 802.11g - Ch.12 (2467 MHz)



Plot 9-401 Radiated Band Edge Peak 802.11n20 - Ch.12 (2467 MHz)



Date: 18.FEB.2019 21:07:17

Plot 9-402 Radiated Band Edge Average 802.11n20 - Ch.12 (2467 MHz)

SISO Path B Band Edge Average Data							
Carrier Frequency (MHz)	Spurious Frequency (MHz)	Raw Avg. Amplitude (dBμV)	System Correction Factor (dB)	Duty cycle correction factor(dB)	Corrected Avg. Field Strength (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)
802.11b mode							
2467	2483.50	32.77	13.2	0	45.97	54	-8.03
802.11g mode							
2412	2389.69	35.23	12.8	0.10	48.13	54	-5.87
2462	2483.50	32.48	13.2	0.10	45.78	54	-8.22
2467	2483.50	37.47	13.2	0.10	50.77	54	-3.23
802.11n20 mode							
2412	2389.69	38.76	12.8	0.09	51.65	54	-2.35
2462	2483.50	33.98	13.2	0.09	47.27	54	-6.73
2467	2483.50	37.68	13.2	0.09	50.97	54	-3.03
802.11n40 mode							
2422	2389.69	37.39	12.7	0.16	50.25	54	-3.75
2427	2389.69	35.15	12.8	0.37	48.32	54	-5.68
2432	2389.69	35.43	12.8	0.31	48.54	54	-5.46
2447	2483.80	33.71	13.2	0.37	47.28	54	-6.72
2452	2483.80	36.06	13.2	0.34	49.60	54	-4.40
2462	2483.50	38.13	13.2	0.33	51.66	54	-2.34

9.9 AC Line Conducted Emissions

9.9.1 Test Requirements

FCC CFR 47 Rule Part 15.207 (a)

Innovation Science and Economic Development Canada RSS-Gen [8.8]

9.9.2 Test Method

Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the unsymmetric radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with the power cords that are used under normal operating conditions. These measurements are made using a LISN (Line Impedance Stabilization Network). AC powered peripherals are attached to a second LISN with the 50-ohm measuring port terminated by a 50-ohm resistive load.

The EUT is set to continuously transmit on Ch.6, 802.11n MIMO mode at 16dBm power setting.

EMI Receiver Settings:

150 kHz – 30 MHz:

RBW= 9 kHz

VBW $\geq 3 \times$ RBW

Trace Mode: Peak Detector (Max Hold).

Final measurements performed using Quasi-Peak and Average Detectors.

Span= 150 kHz – 30 MHz

Sweep time= Auto

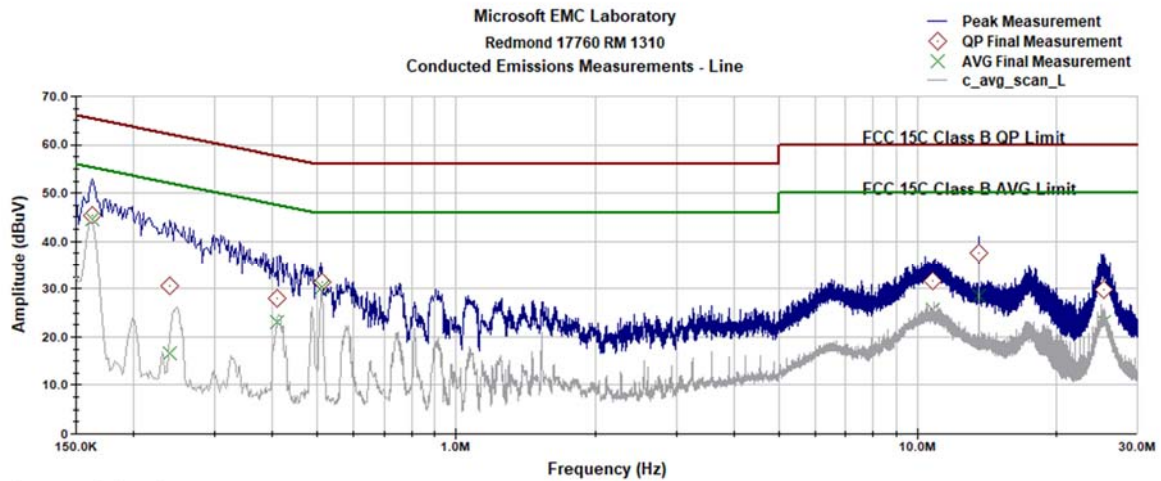
9.9.3 Limit

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

9.9.4 Test Result:

Pass

9.9.5 Test Data:

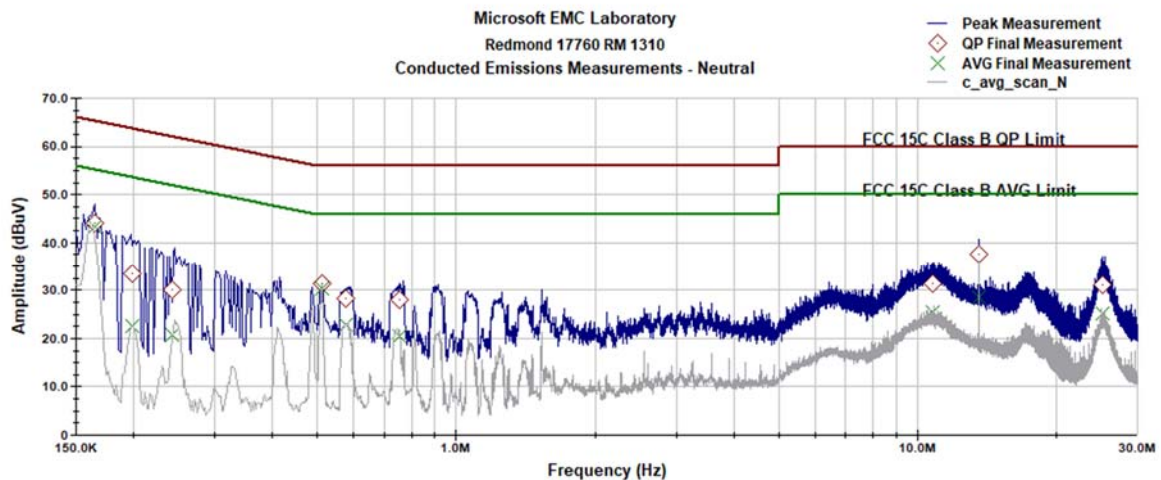


Operator: Soham Surve

Last Data Update 06:17:37 PM, Thursday, April 04, 2019

CE Profile V2.2

Plot 9-403 Conducted Emissions Measurements-Line



Operator: Soham Surve

Last Data Update 06:39:34 PM, Thursday, April 04, 2019

CE Profile V2.2

Plot 9-404 Conducted Emissions Measurements- Neutral

Frequency (MHz)	Line Tested (L or N)	AVG Amplitude (dBμV)	QP Amplitude (dBμV)	AVG Limit (dBμV)	QP Limit (dBμV)	AVG Margin (dB)	QP Margin (dB)
0.163	L	44.47	45.25	55.33	65.33	-10.86	-20.08
0.512	L	30.31	31.45	46.00	56.00	-15.69	-24.55
13.561	L	28.41	37.64	50.00	60.00	-21.59	-22.36
10.777	L	25.67	31.73	50.00	60.00	-24.33	-28.27
0.409	L	23.19	28.08	47.66	57.66	-24.47	-29.58
25.402	L	23.19	29.75	50.00	60.00	-26.81	-30.25
0.239	L	16.48	30.68	52.11	62.11	-35.64	-31.43
0.165	N	43.24	44.10	55.23	65.23	-11.99	-21.13
0.512	N	30.22	31.43	46.00	56.00	-15.79	-24.57
13.561	N	28.39	37.62	50.00	60.00	-21.61	-22.38
0.577	N	22.84	28.19	46.00	56.00	-23.16	-27.81
10.778	N	25.50	31.30	50.00	60.00	-24.50	-28.70
25.253	N	25.08	31.22	50.00	60.00	-24.92	-28.78
0.753	N	20.51	28.10	46.00	56.00	-25.49	-27.91
0.199	N	22.58	33.41	53.67	63.67	-31.08	-30.25
0.243	N	20.61	29.96	52.00	62.00	-31.39	-32.04

End of Report