

9.7.5.2 Radiated Emissions in 1-18 GHz range 802.11a

RSE - 18GHz Average Data – 802.11a Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Avg. Amplitude (dBµV)	Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
36	5180	15538.42	23.54	19.6	43.14	54	-10.86
44	5220	15661.76	22.66	20.1	42.76	54	-11.24
48	5240	15719.94	24.37	20.1	44.47	54	-9.53
52	5260	15778.64	23.47	20.2	43.67	54	-10.33
60	5300	16271.65	20.9	21.1	42.00	54	-12.00
64	5320	15962.59	23.01	20.6	43.61	54	-10.39
100	5500	16502.33	23.48	21.4	44.88	54	-9.12
116	5580	11158.52	24.92	16.2	41.12	54	-12.88
116	5580	16738.78	22.45	22.3	44.75	54	-9.25
140	5700	No emissions were observed above the noise floor					
149	5745	No emissions were observed above the noise floor					
157	5785	No emissions were observed above the noise floor					
165	5825	No emissions were observed above the noise floor					

RSE - 18GHz Peak Data – 802.11a Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Peak Amplitude (dBµV)	Correction Factor (dB)	Corrected Peak Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
36	5180	15540.57	36.67	19.6	56.27	74	-17.73
44	5220	15659.35	36.79	20.1	56.89	74	-17.11
48	5240	15713.508	35.79	20.1	55.89	74	-18.11
52	5260	15777.90	37.32	20.2	57.52	74	-16.48
60	5300	16298.37	31.73	21.1	52.83	74	-21.17
64	5320	15952.99	36.65	20.6	57.25	74	-16.75
100	5500	16502.04	36.92	21.4	58.32	74	-15.68
116	5580	11159.36	37.39	16.2	53.59	74	-20.61
116	5580	16738.78	35.11	22.3	57.41	74	-16.59
140	5700	No emissions were observed above the noise floor					
149	5745	No emissions were observed above the noise floor					
157	5785	No emissions were observed above the noise floor					
165	5825	No emissions were observed above the noise floor					
36	5180	No emissions were observed above the noise floor					

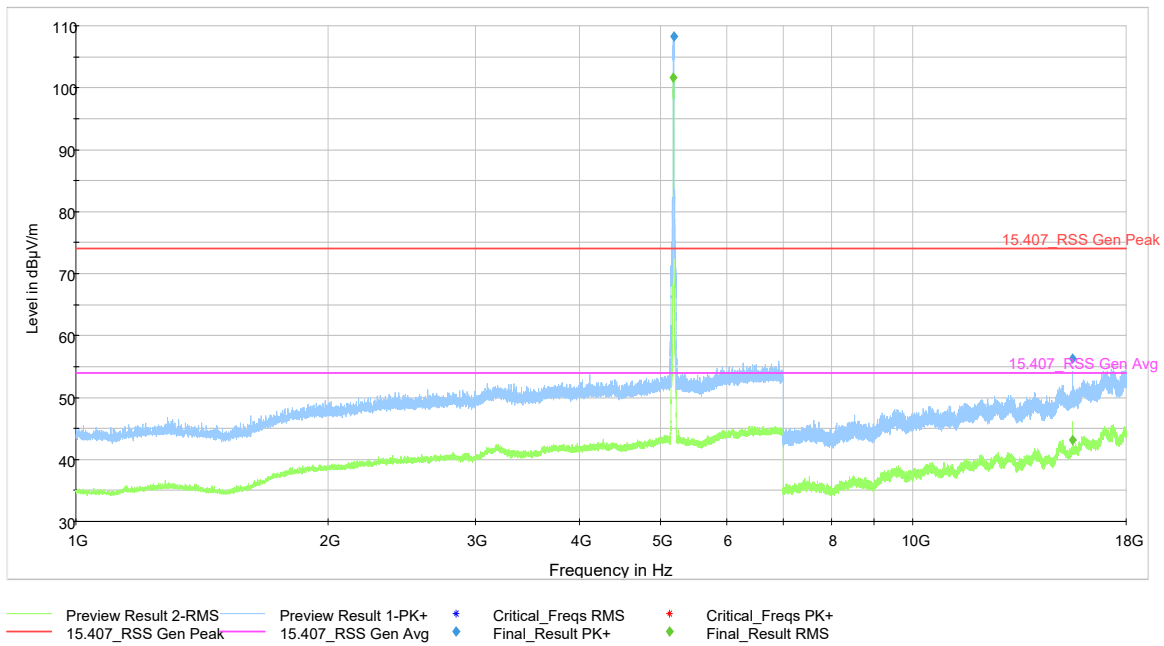


Figure 599. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 36)

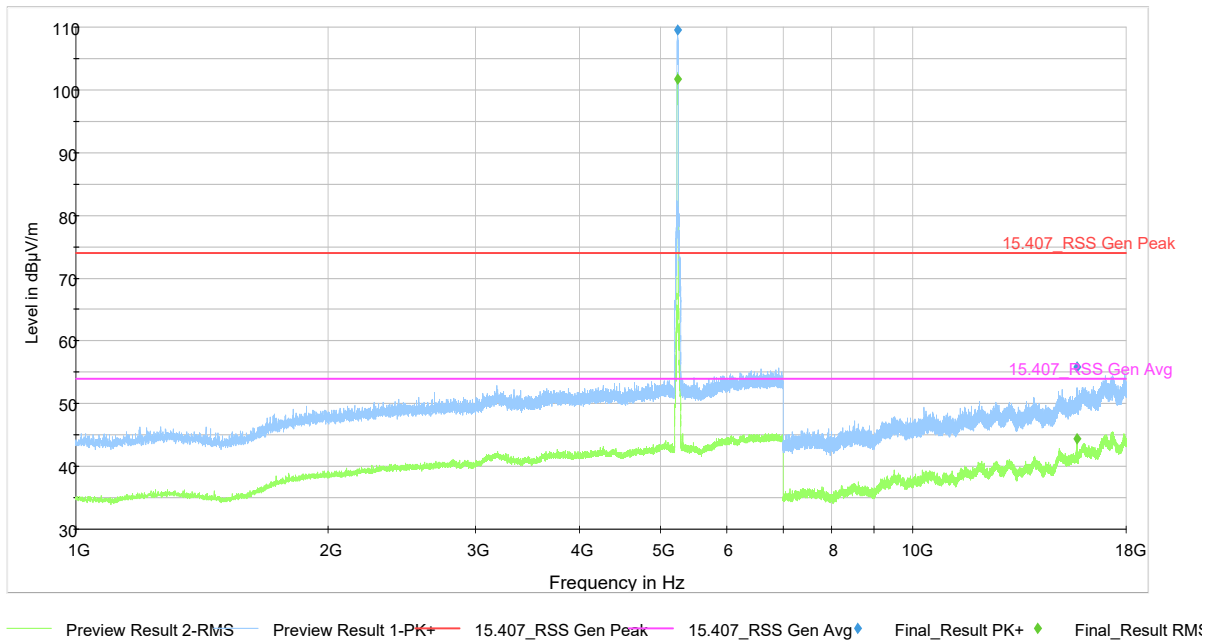


Figure 600. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 44)

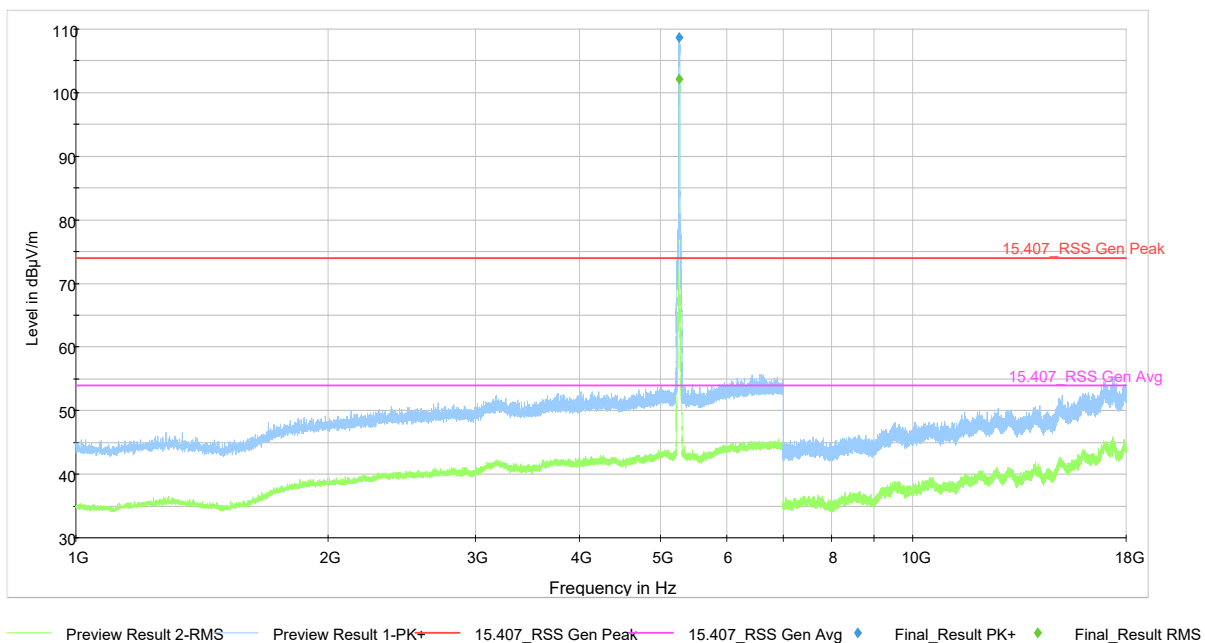


Figure 601. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 52)

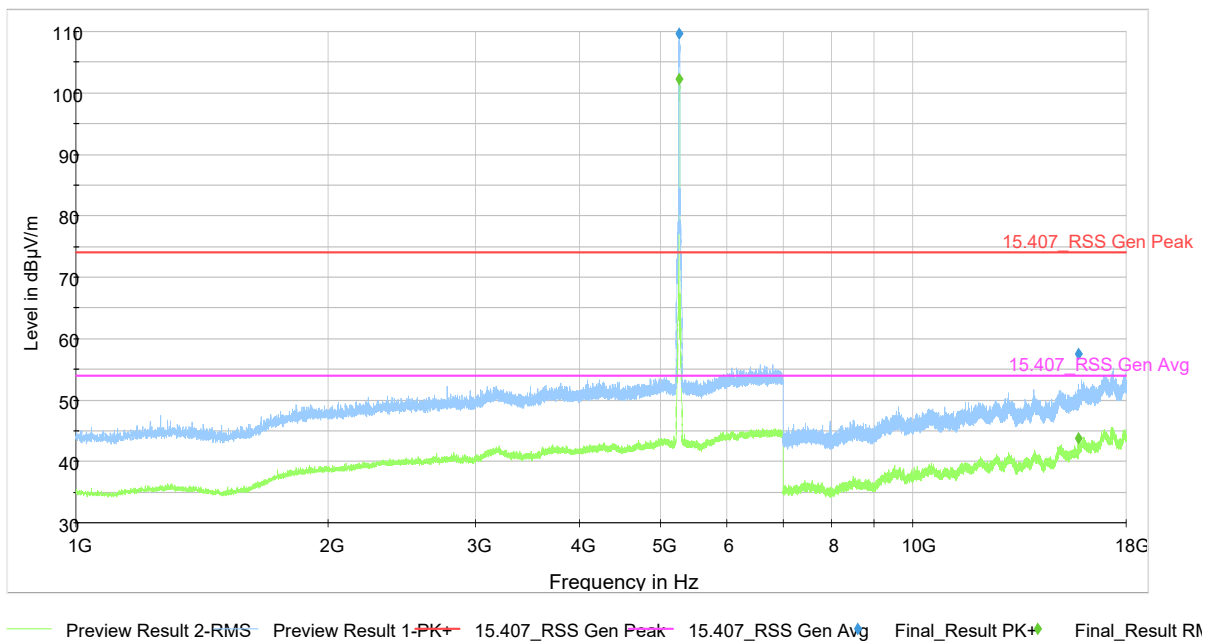


Figure 602. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 60)

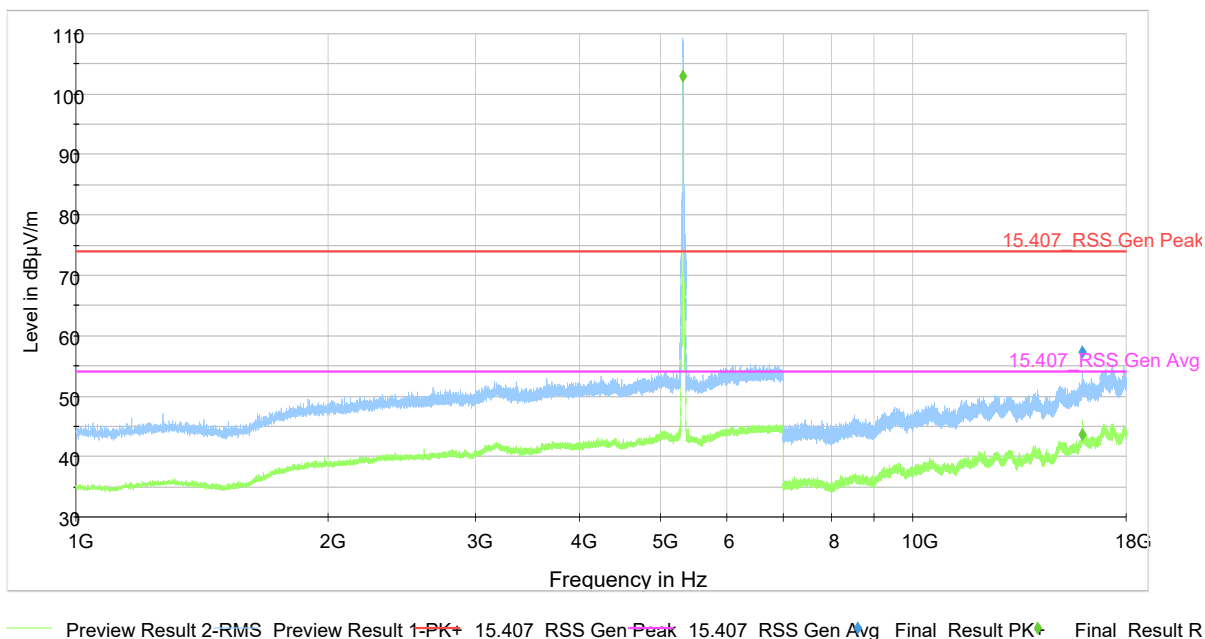


Figure 603. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 64)

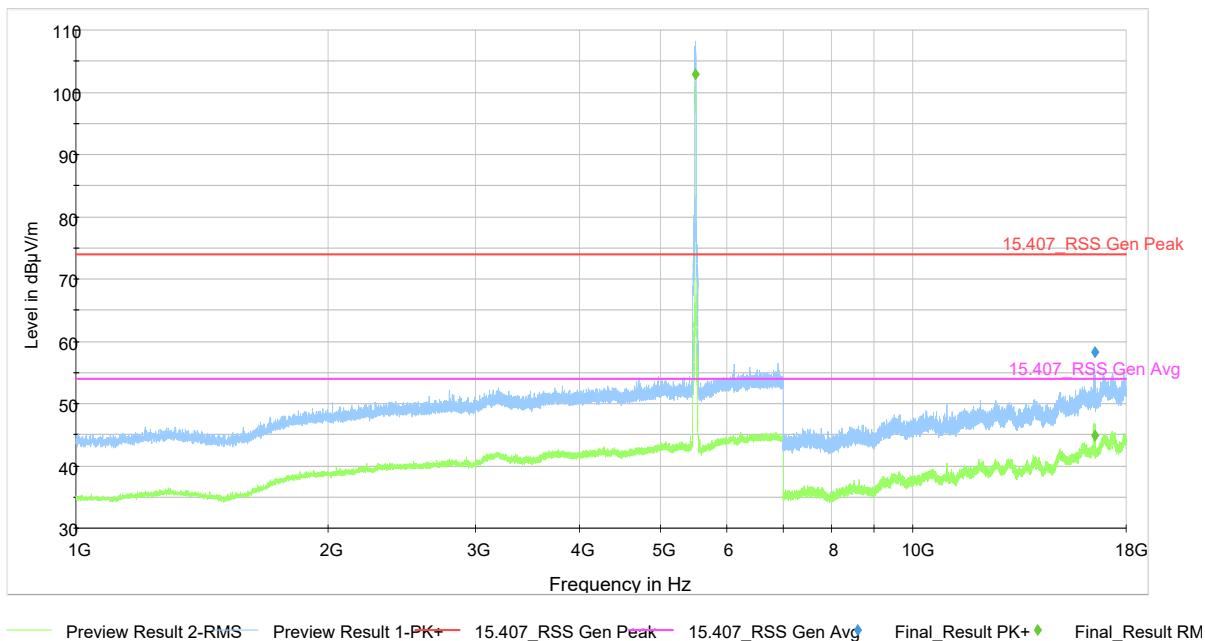


Figure 604. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 100)

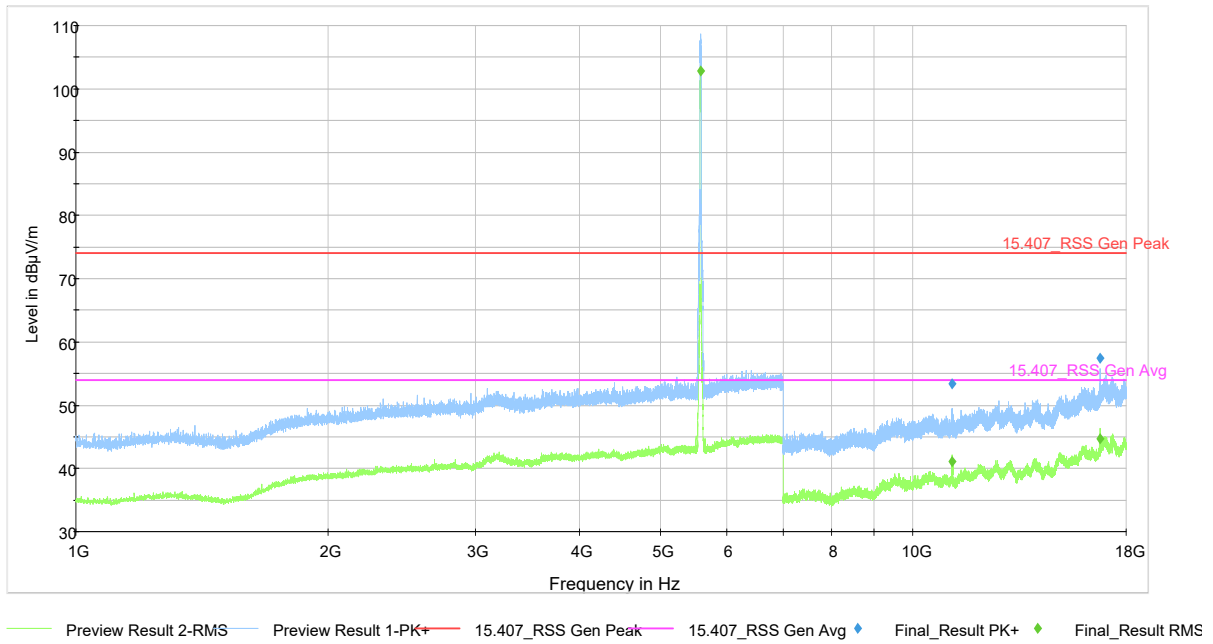


Figure 605. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 116)

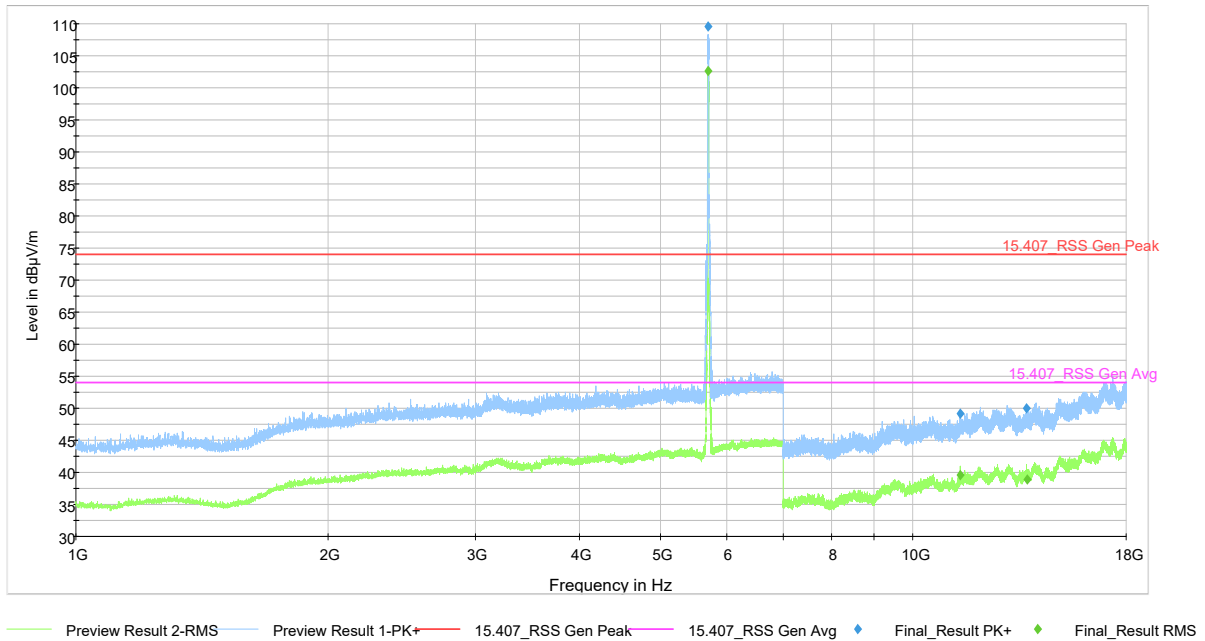


Figure 606. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 140)

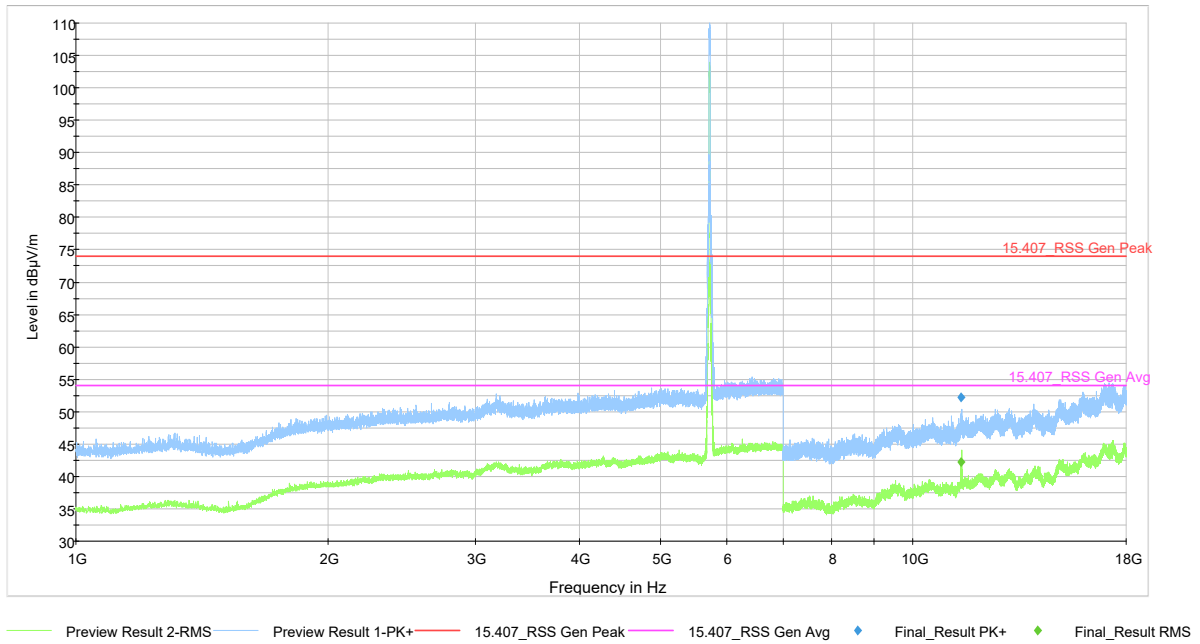


Figure 607. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 144)

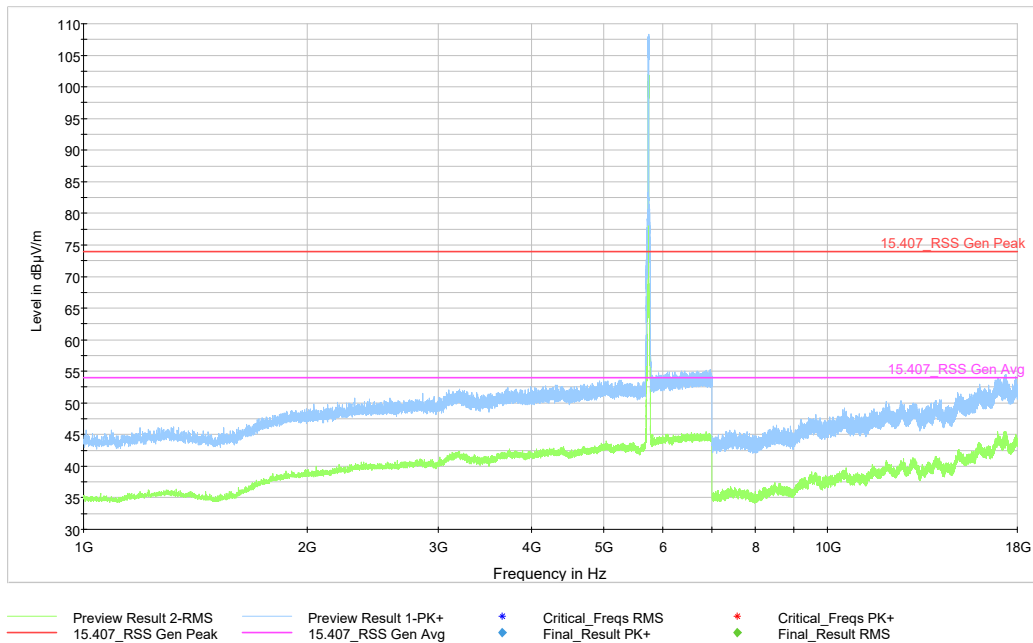


Figure 608. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 149)

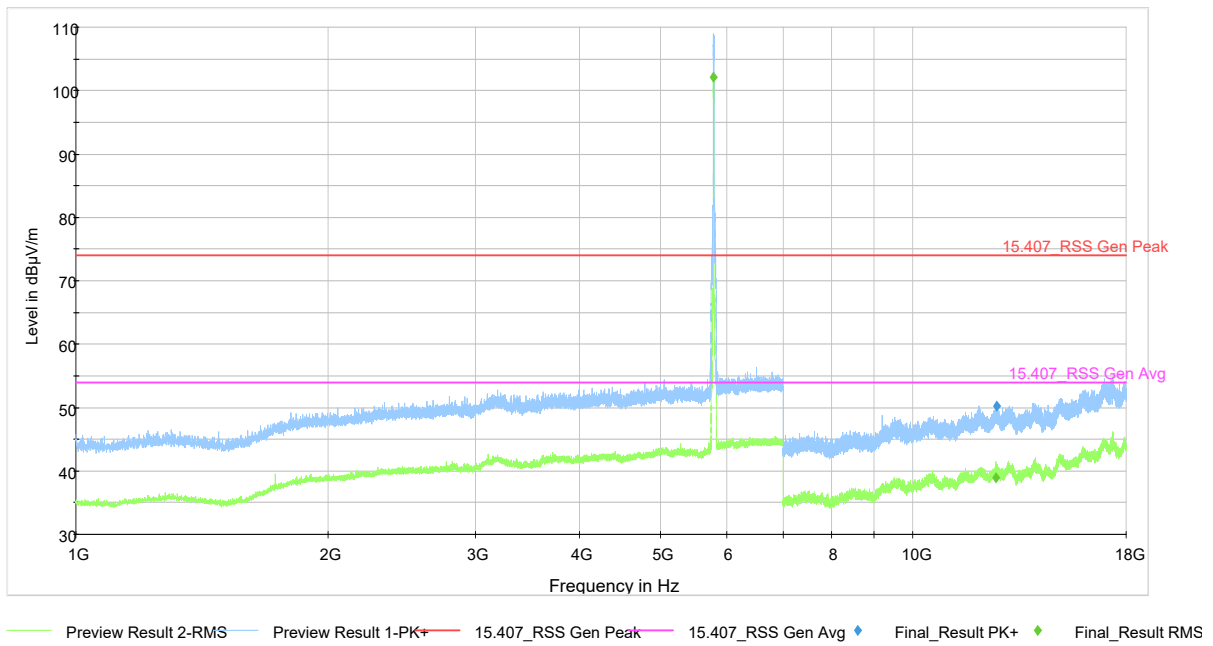


Figure 609. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 157)

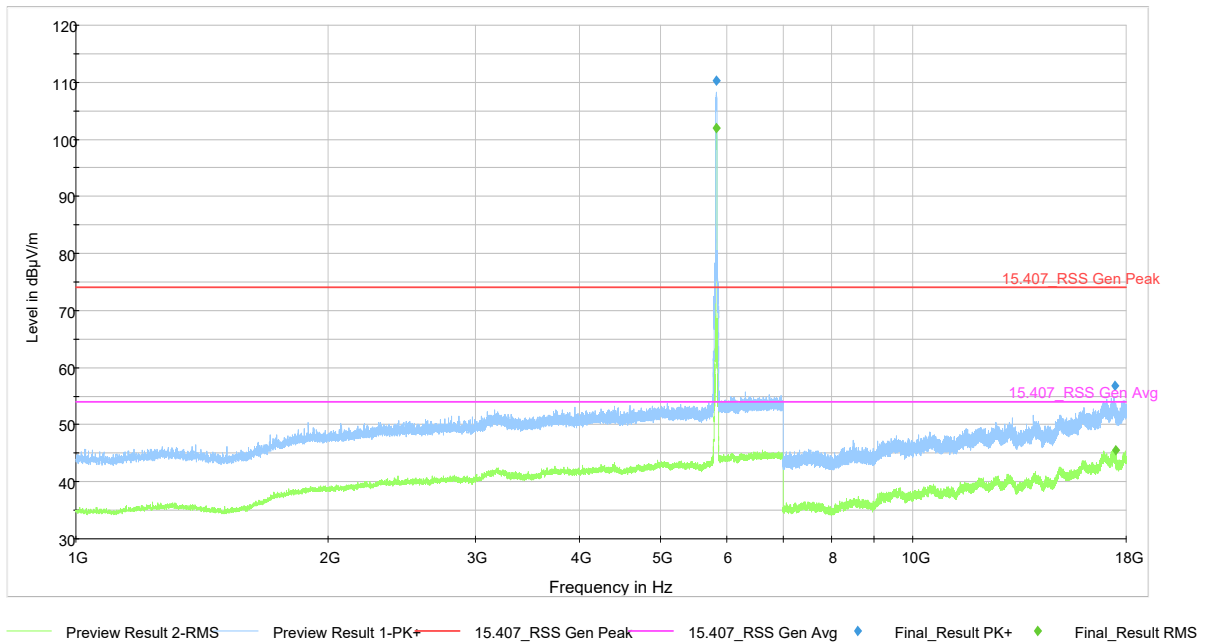


Figure 610. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11a (Ch. 165)

9.7.5.3 Radiated Emissions in 1-18 GHz range 802.11n HT20

RSE - 18GHz Average Data – 802.11n HT20 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Avg. Amplitude (dBµV)	Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
36	5180	15541.04	23.16	19.6	42.76	54	-11.24
44	5220	15663.06	24.12	20.1	44.22	54	-9.78
48	5240	15716.34	23.81	20.1	43.91	54	-10.09
52	5260	15778.64	23.6	20.2	43.80	54	-10.20
60	5300	15899.37	22.81	20.5	43.31	54	-10.69
64	5320	15963.60	22.37	20.6	42.97	54	-11.03
100	5500	16502.74	24.14	21.4	45.54	54	-8.46
116	5580	11157.6	24	16.2	40.20	54	-13.80
140	5700	No emissions were observed above the noise floor					
149	5745	17343.49	20.44	24.0	44.44	54	-9.56
157	5785	No emissions were observed above the noise floor					
165	5825	No emissions were observed above the noise floor					

RSE - 18GHz Peak Data – 802.11n HT20 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Peak Amplitude (dBµV)	Correction Factor (dB)	Corrected Peak Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
36	5180	15548.43	38.49	19.7	58.19	74	-15.81
44	5220	15653.49	36.72	20.1	56.82	74	-17.18
48	5240	15717.26	37.04	20.1	57.14	74	-16.86
52	5260	15778.83	36.6	20.2	56.80	74	-17.20
60	5300	15904.17	36.54	20.5	57.04	74	-16.96
64	5320	15963.67	36.37	20.6	56.97	74	-17.03
100	5500	16498.98	36.59	21.4	57.99	74	-16.01
116	5580	11153.52	35.25	16.2	51.45	74	-22.55
140	5700	No emissions were observed above the noise floor					
149	5745	17354.68	31.69	23.8	55.49	74	-18.51
157	5785	No emissions were observed above the noise floor					
165	5825	No emissions were observed above the noise floor					
36	5180	No emissions were observed above the noise floor					

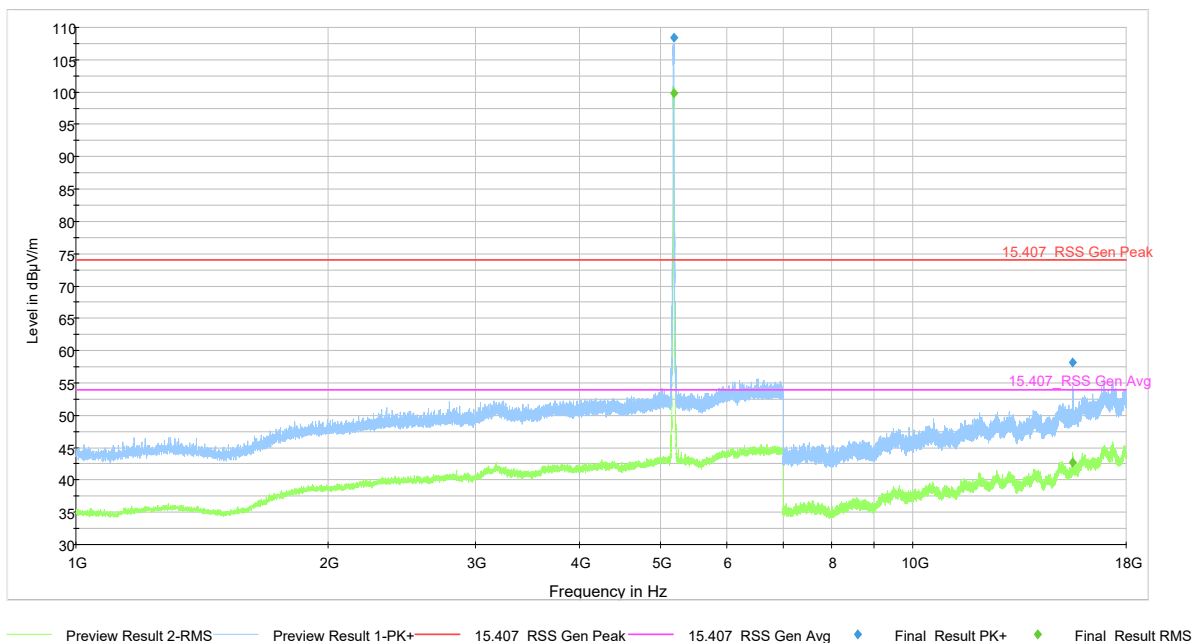


Figure 611. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 36)

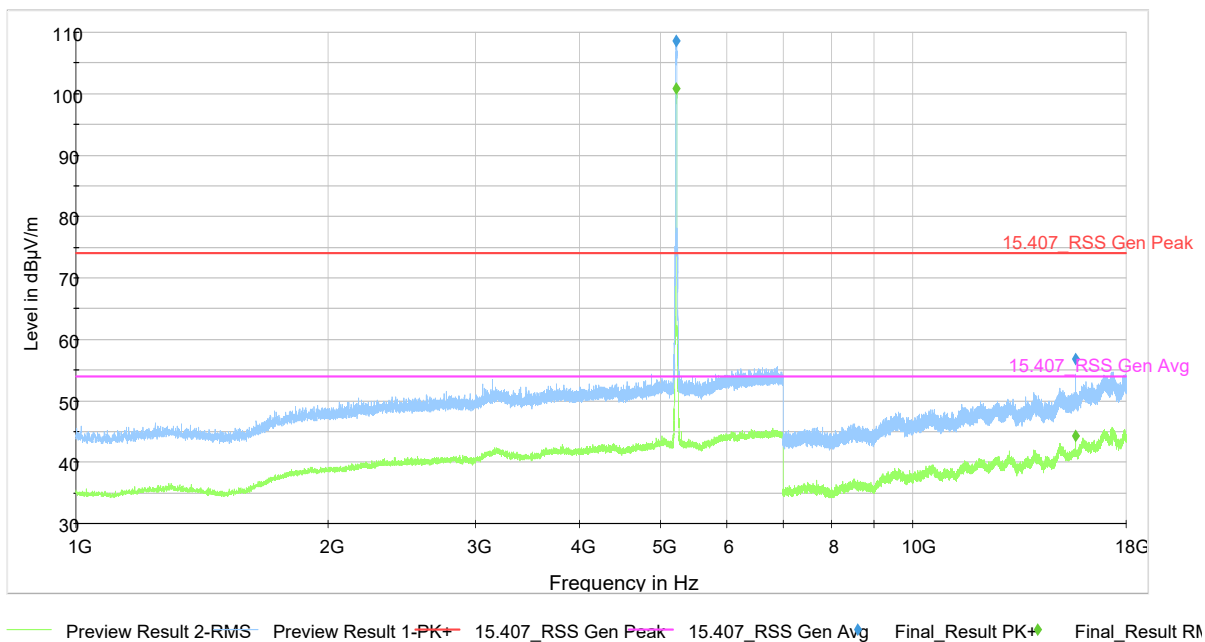


Figure 612. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 44)

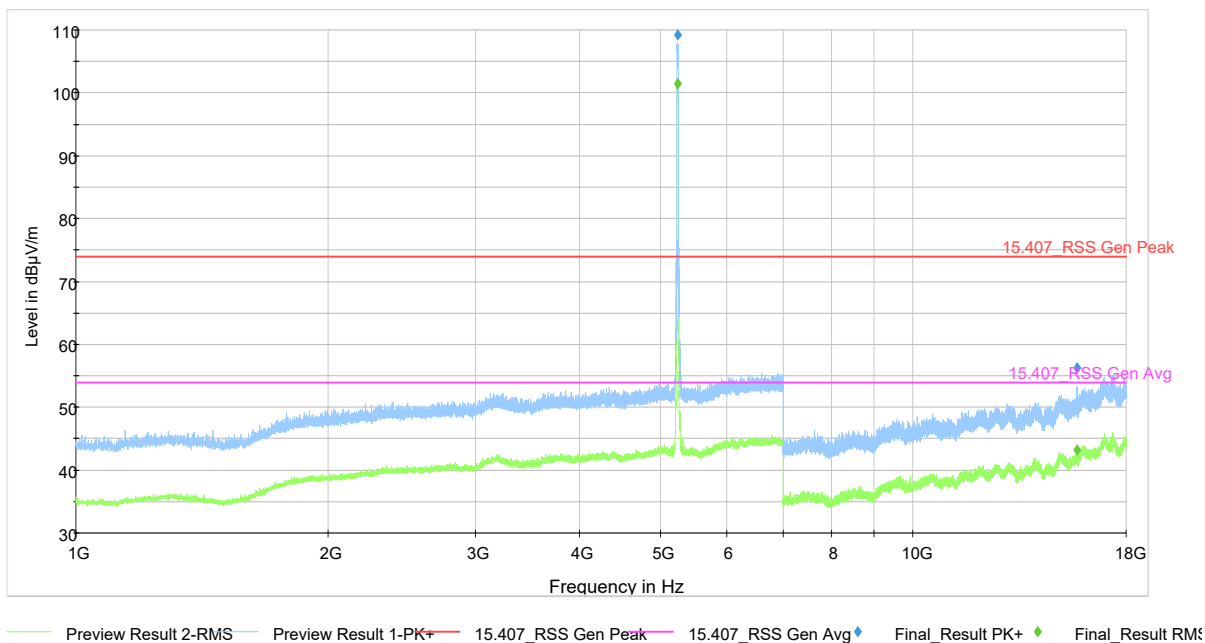


Figure 613. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 48)

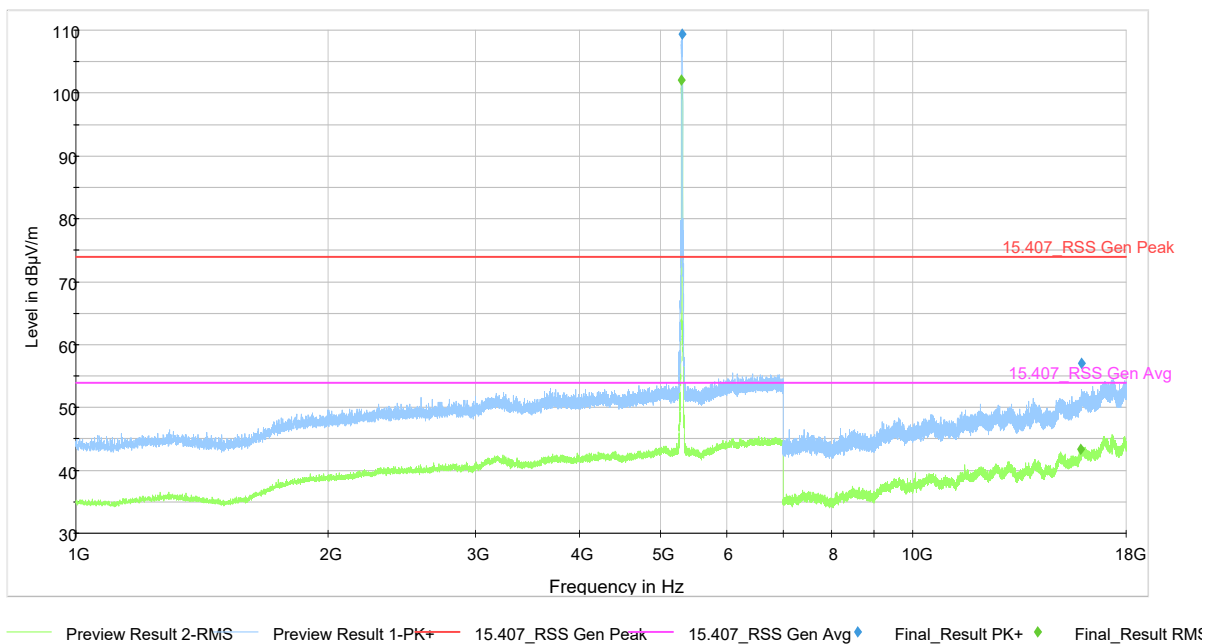


Figure 614. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 52)

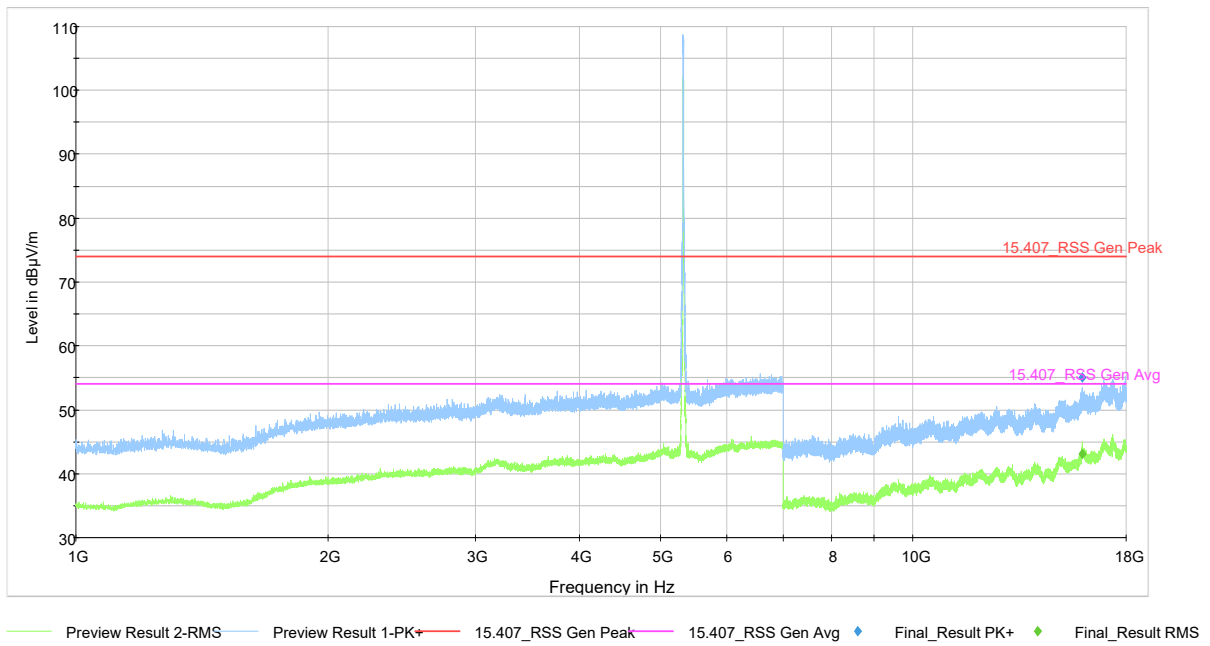


Figure 615. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 60)

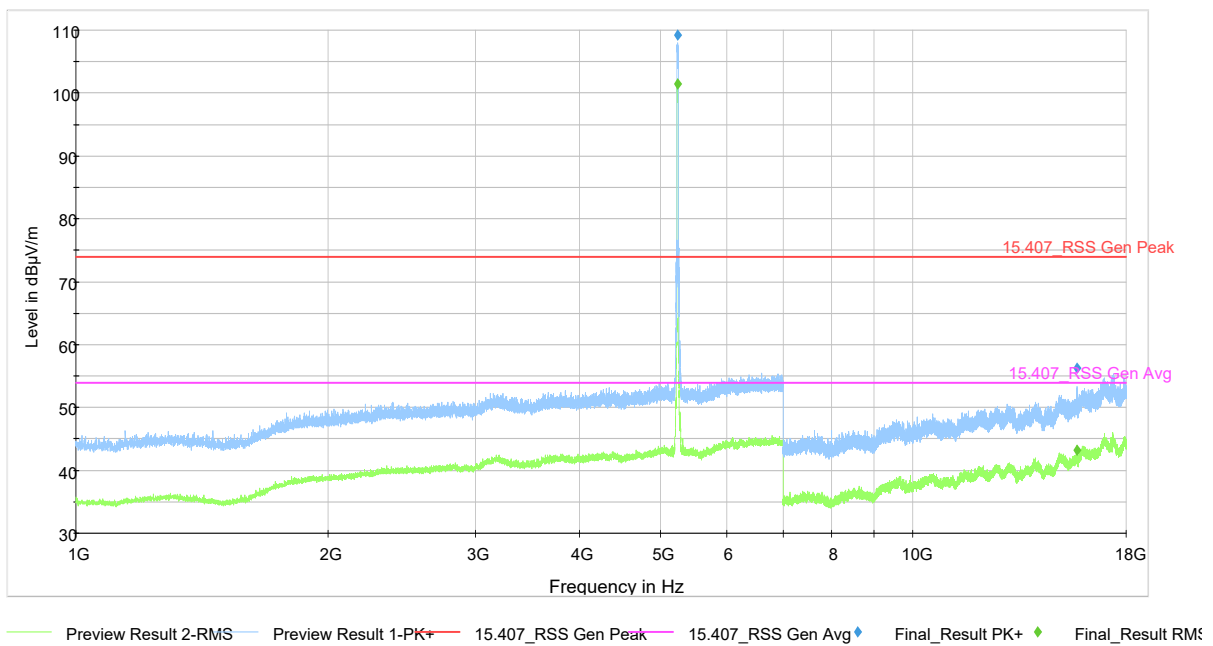


Figure 616. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 64)

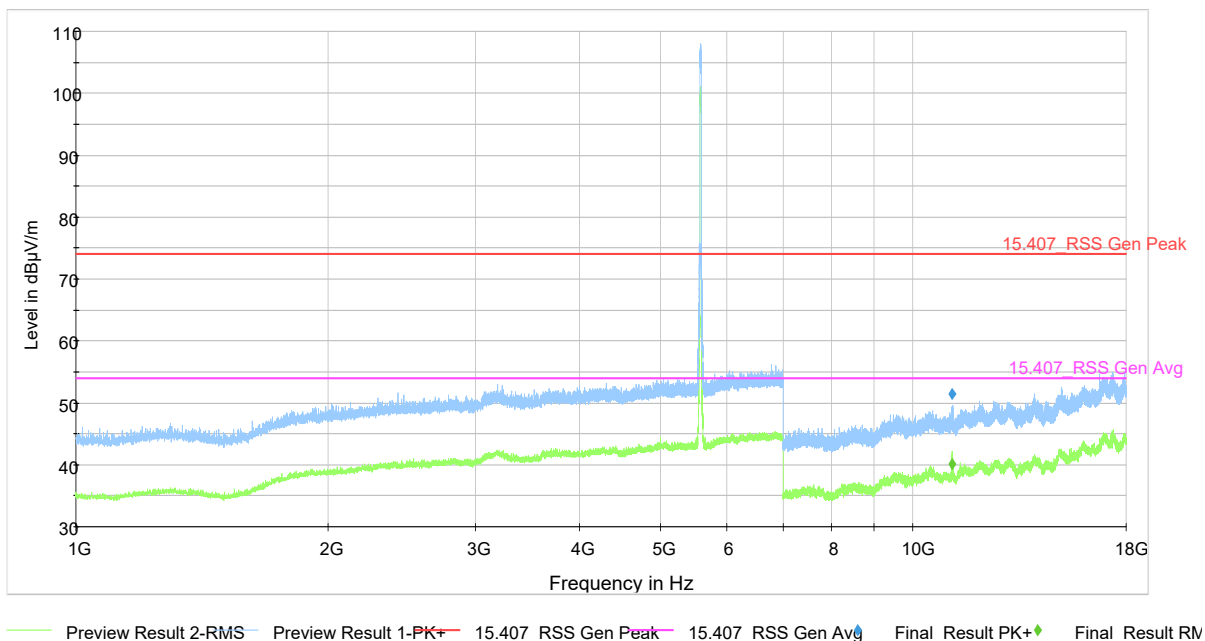


Figure 617. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 100)

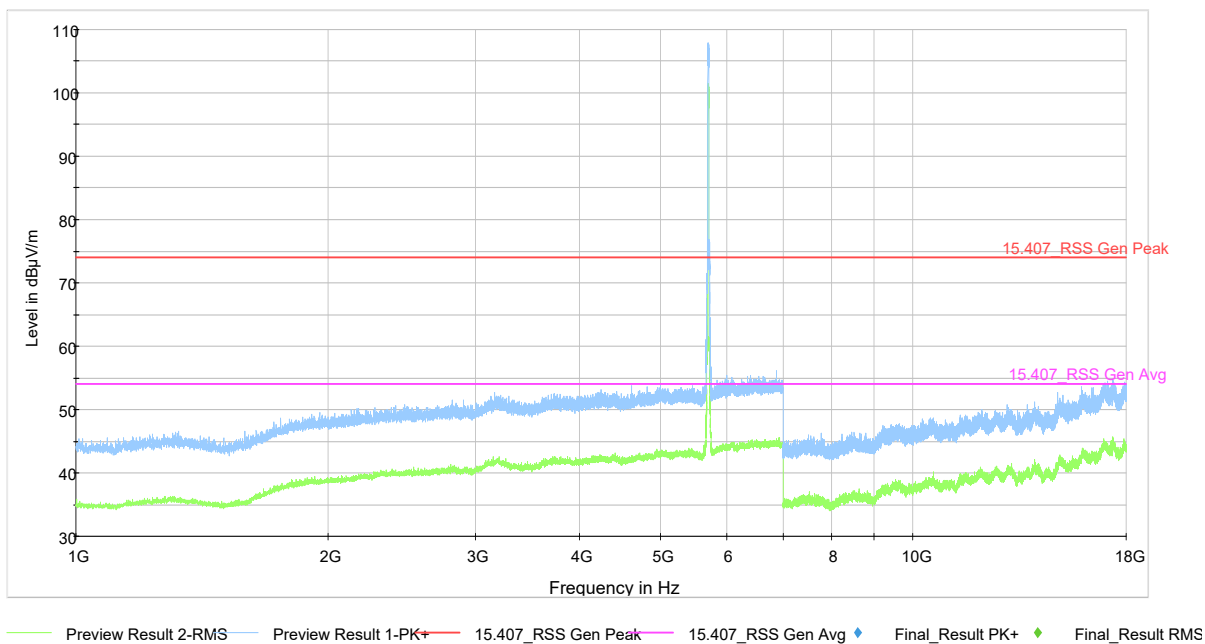


Figure 618. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 116)

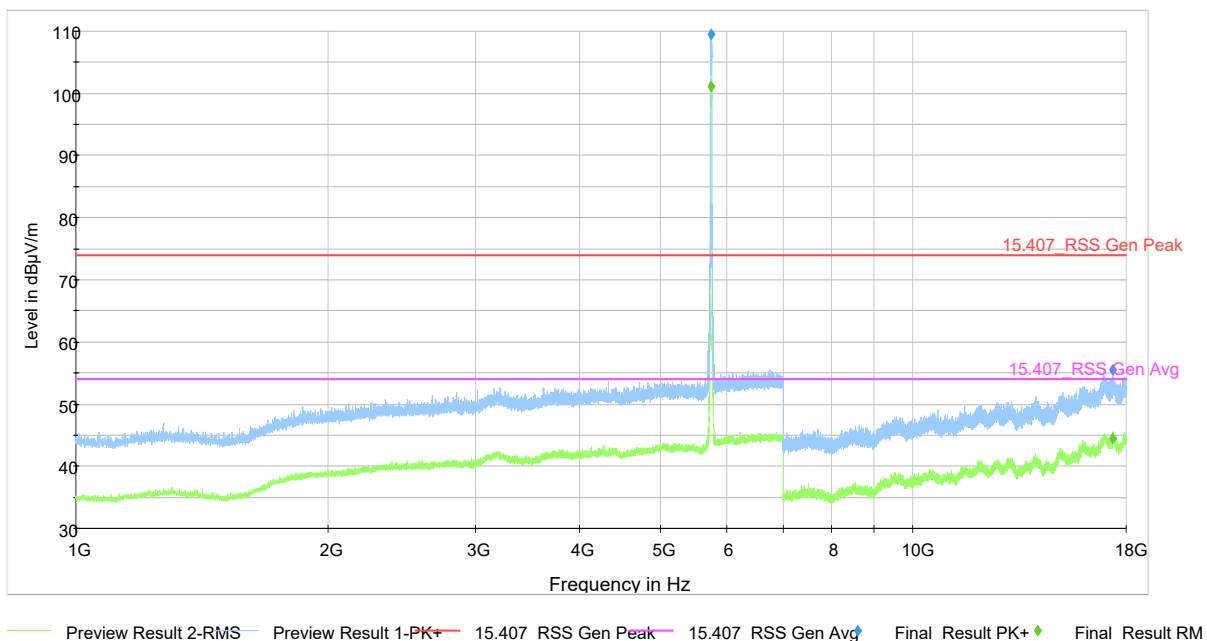


Figure 619. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 140)

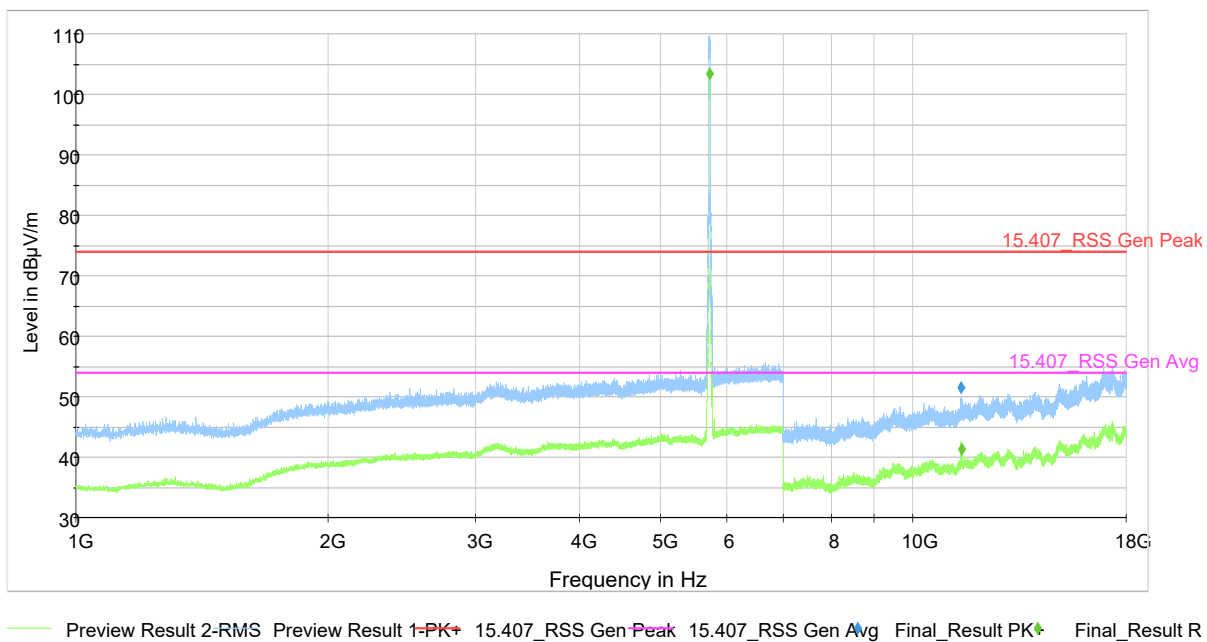


Figure 620. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 149)

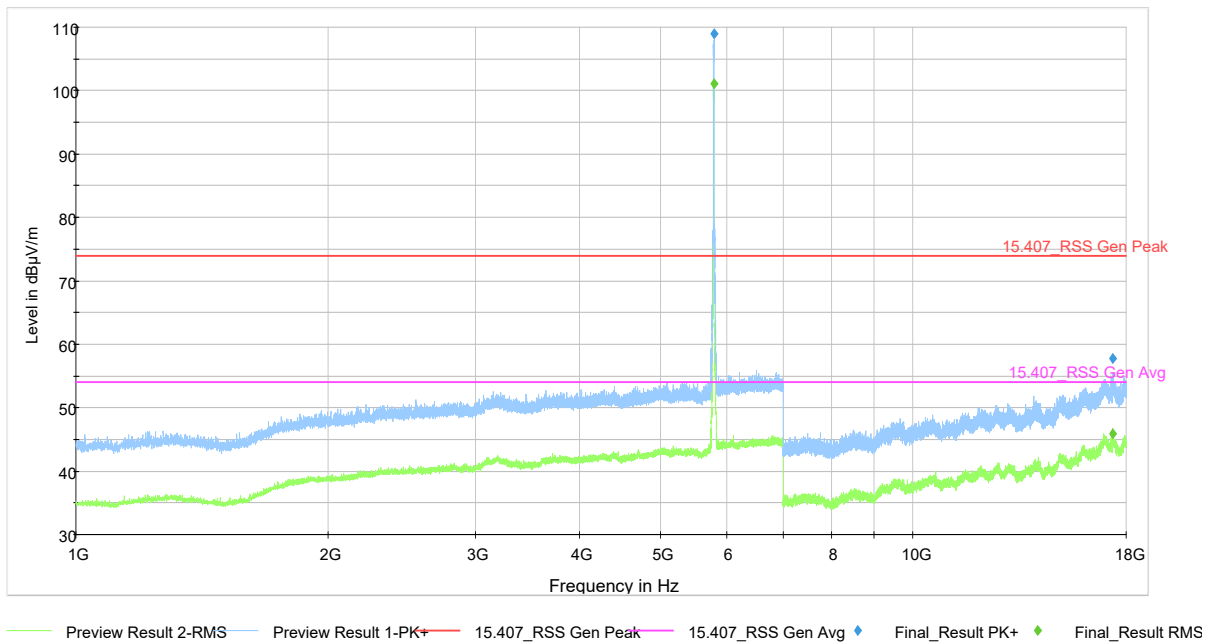


Figure 621. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 157)

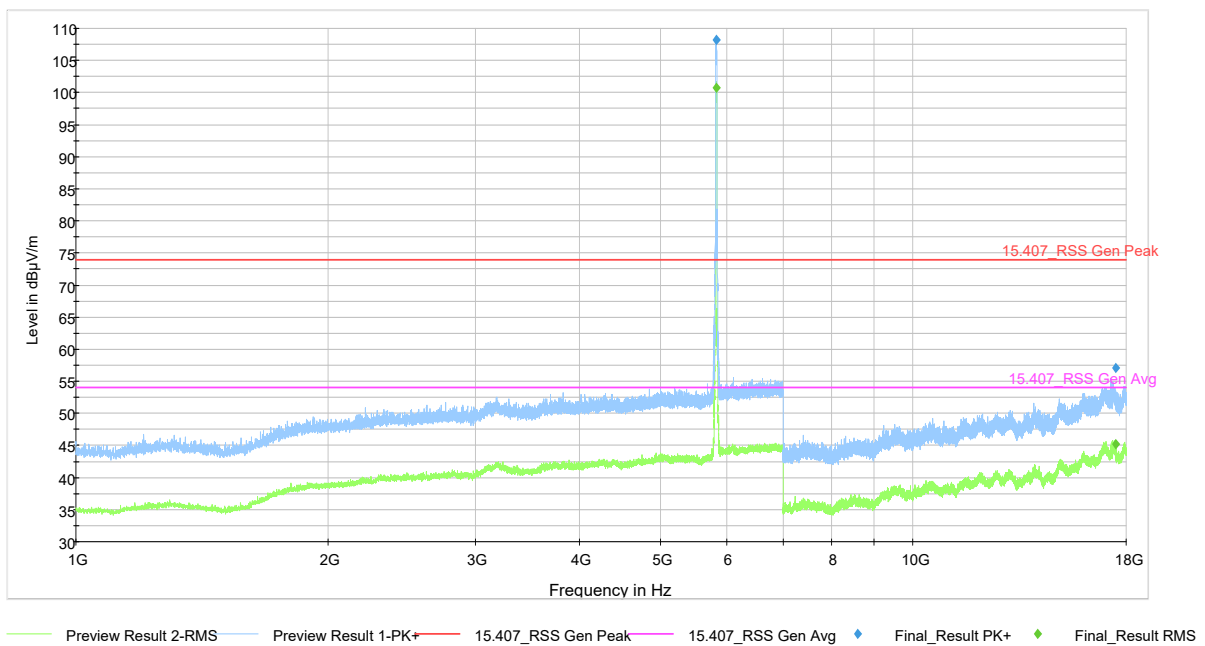


Figure 622. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT20 (Ch. 165)

9.7.5.4 Radiated Emissions in 1-18 GHz range 802.11ac VHT20

RSE - 18GHz Average Data – 802.11ac VHT20 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Avg. Amplitude (dBµV)	Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
36	5180	15544.19	23.18	19.7	42.88	54	-11.12
44	5220	15656.61	23.43	20.1	43.53	54	-10.47
48	5240	15720.08	24.06	20.1	44.16	54	-9.84
52	5260	15779.19	22.18	20.2	42.38	54	-11.62
60	5300	No emissions were observed above the noise floor					
64	5320	No emissions were observed above the noise floor					
100	5500	10998.83	22.78	15.9	38.68	54	-15.32
100	5500	16496.51	23.97	21.4	45.37	54	-8.63
116	5580	11157.60	23.63	16.2	39.83	54	-14.17
140	5700	No emissions were observed above the noise floor					
149	5745	No emissions were observed above the noise floor					
157	5785	No emissions were observed above the noise floor					
165	5825	No emissions were observed above the noise floor					

RSE - 18GHz Peak Data – 802.11ac VHT20 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Peak Amplitude (dBµV)	Correction Factor (dB)	Corrected Peak Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
36	5180	15542.08	34.2	19.6	53.80	74	-20.20
44	5220	15656.61	37.28	20.1	57.38	74	-16.62
48	5240	15721.84	37.04	20.1	57.14	74	-16.86
52	5260	15782.41	38.3	20.2	58.50	74	-15.50
60	5300	No emissions were observed above the noise floor					
64	5320	No emissions were observed above the noise floor					
100	5500	10994.79	34.09	15.9	49.99	74	-24.01
100	5500	16511.43	37.58	21.5	59.08	74	-14.92
116	5580	11153.20	36.28	16.2	52.48	74	-21.52
140	5700	No emissions were observed above the noise floor					
149	5745	No emissions were observed above the noise floor					
157	5785	No emissions were observed above the noise floor					
165	5825	No emissions were observed above the noise floor					
36	5180	No emissions were observed above the noise floor					

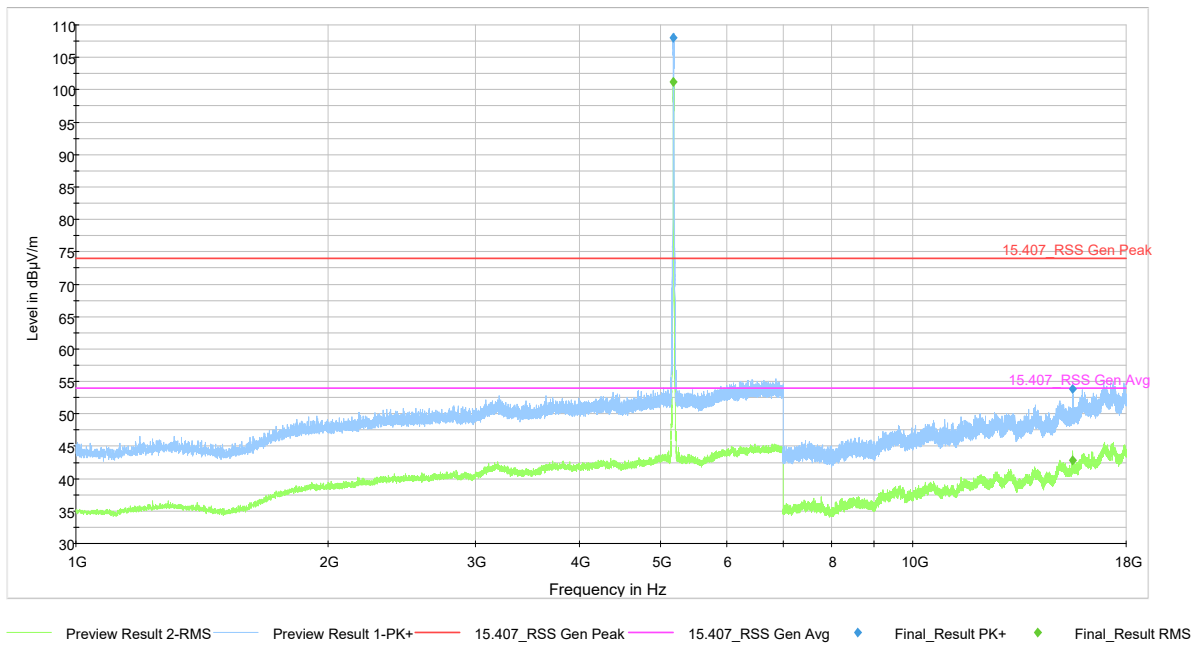


Figure 623. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 36)

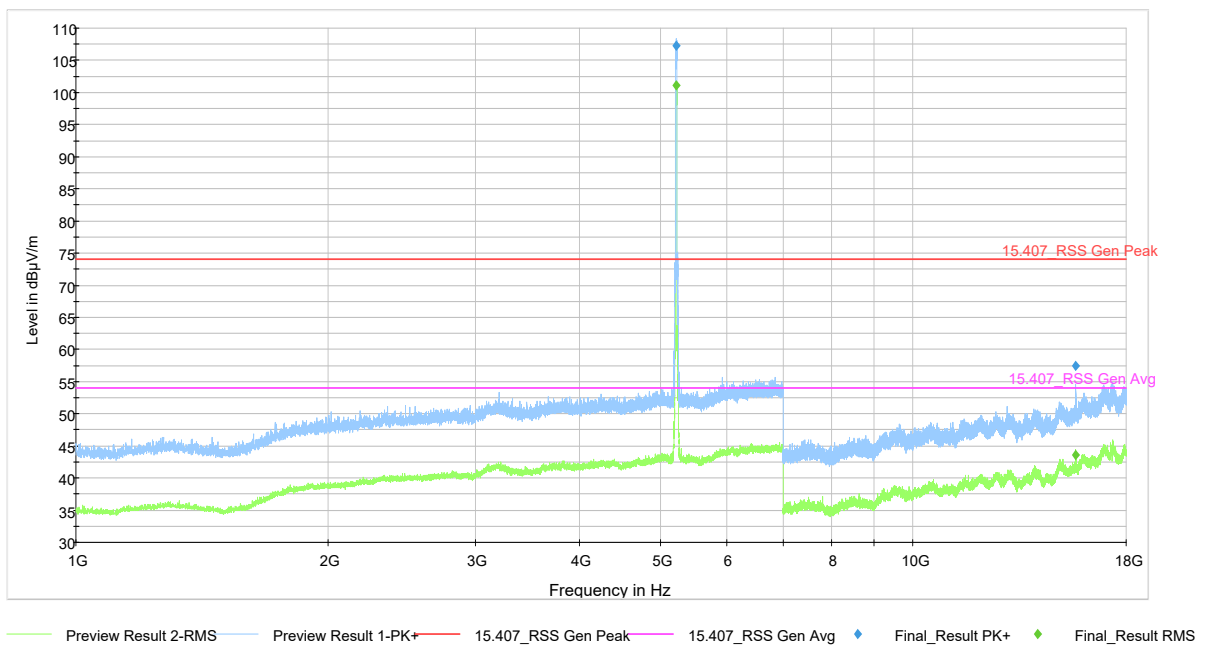


Figure 624. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 44)

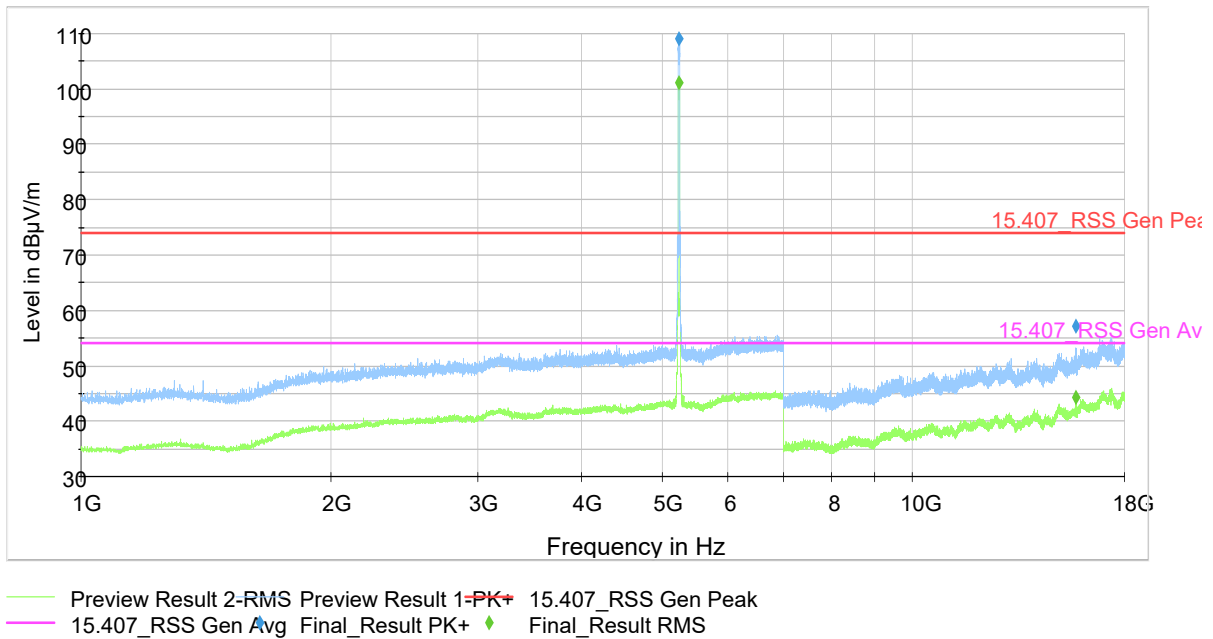


Figure 625. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 48)

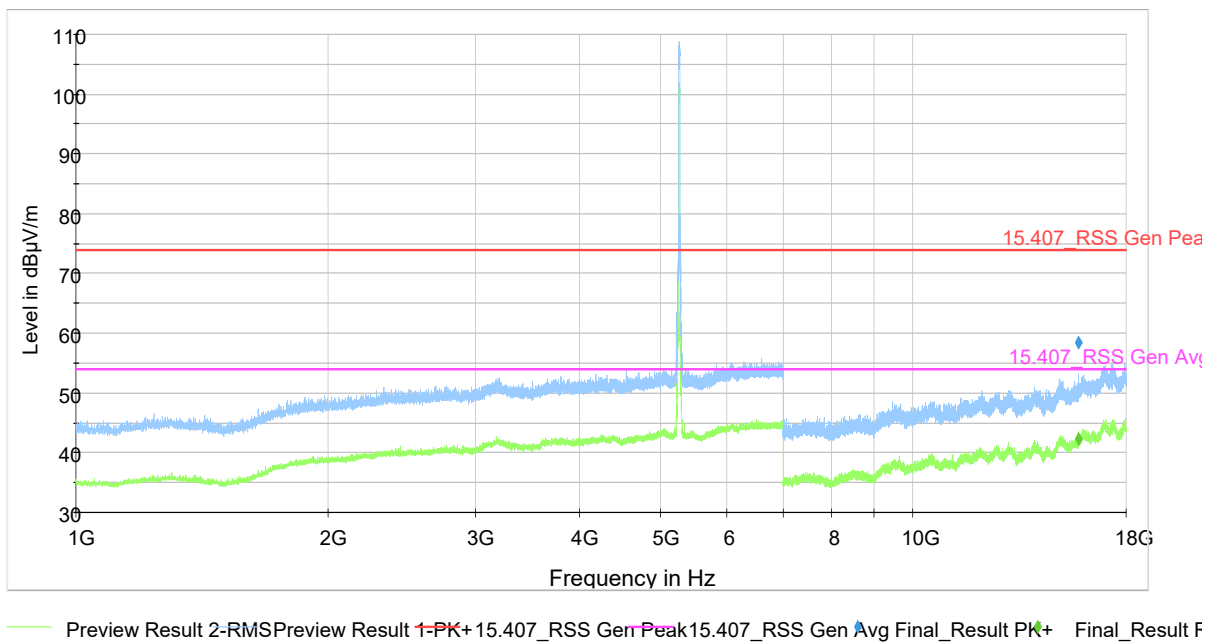


Figure 626. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 52)

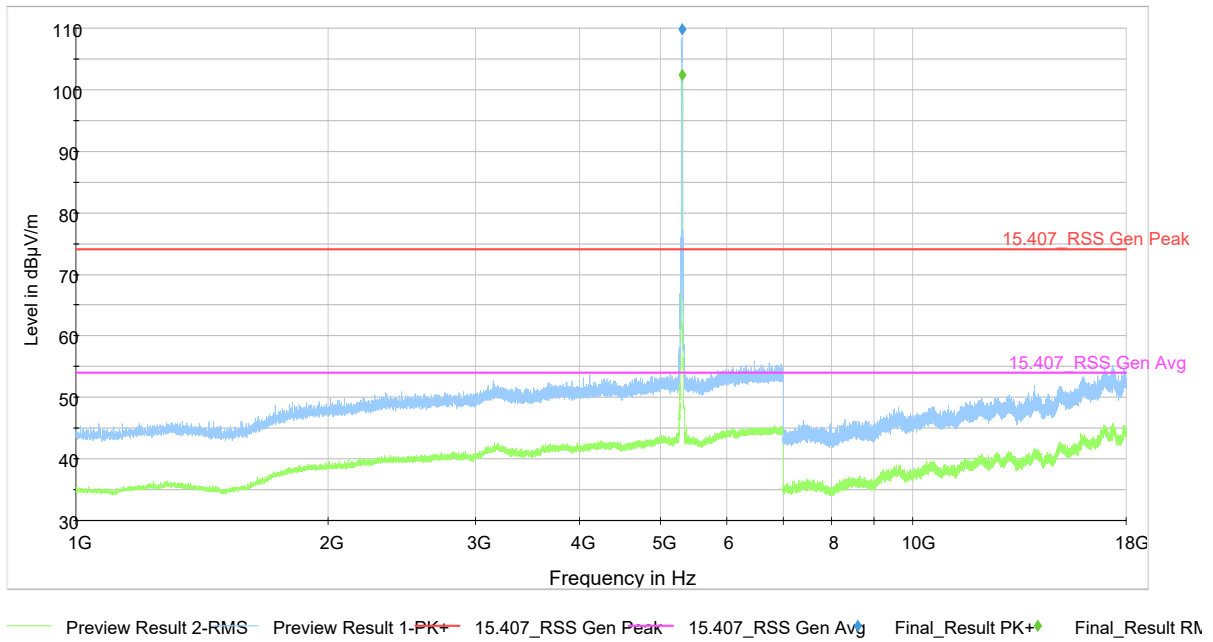


Figure 627. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 60)

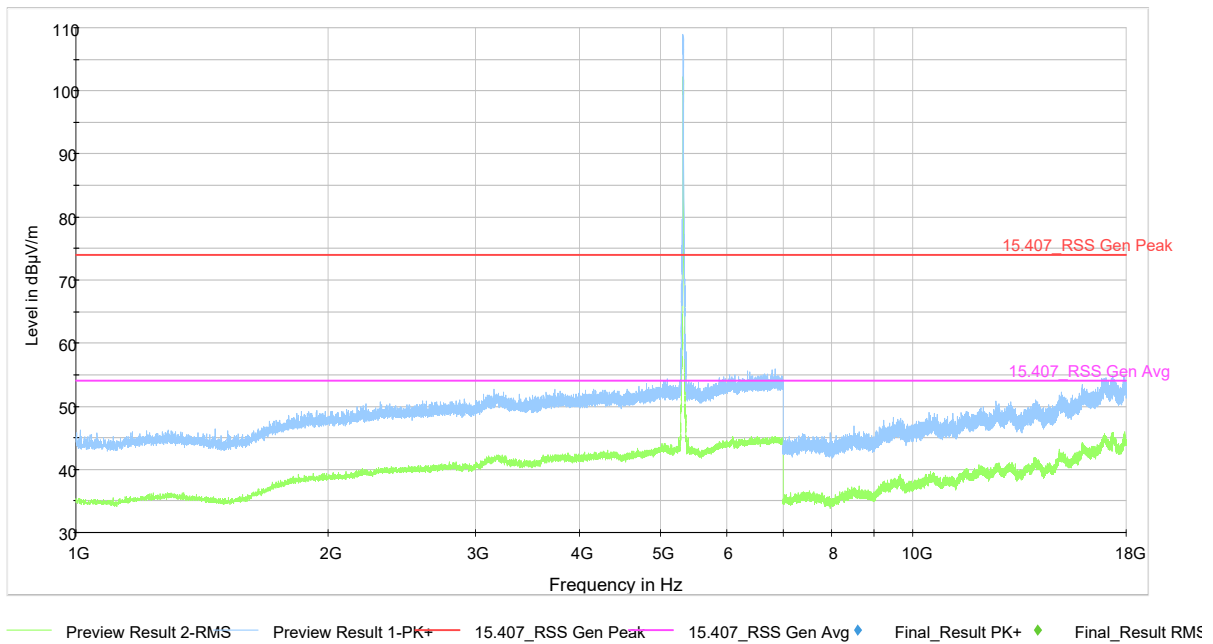


Figure 628. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 64)

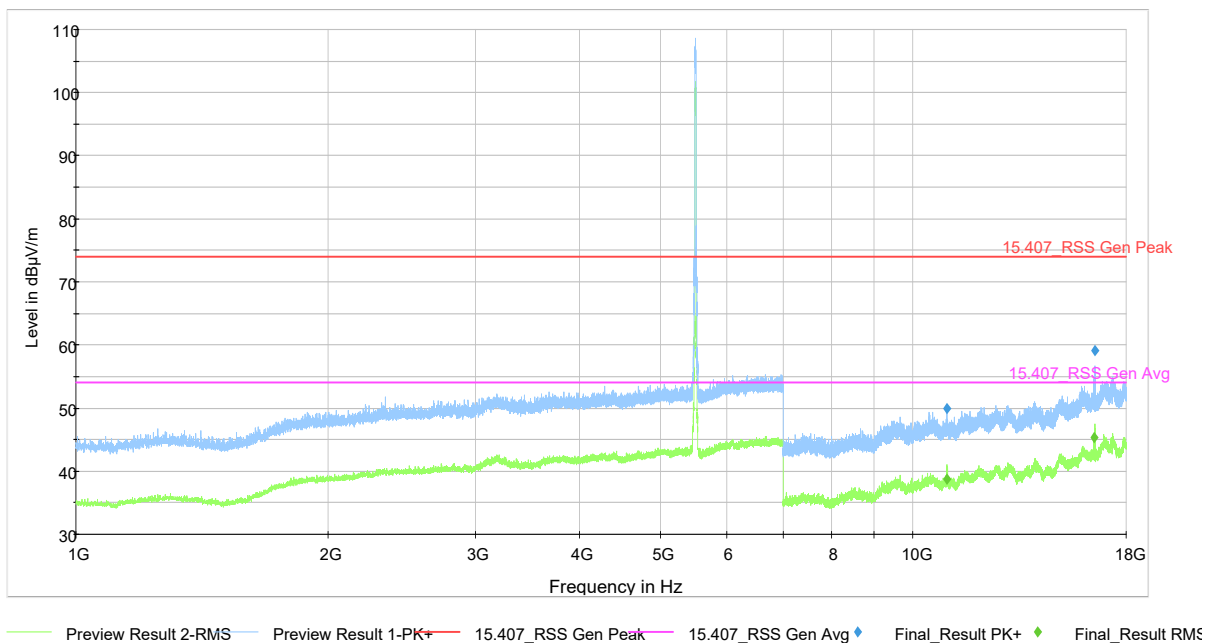


Figure 629. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 100)

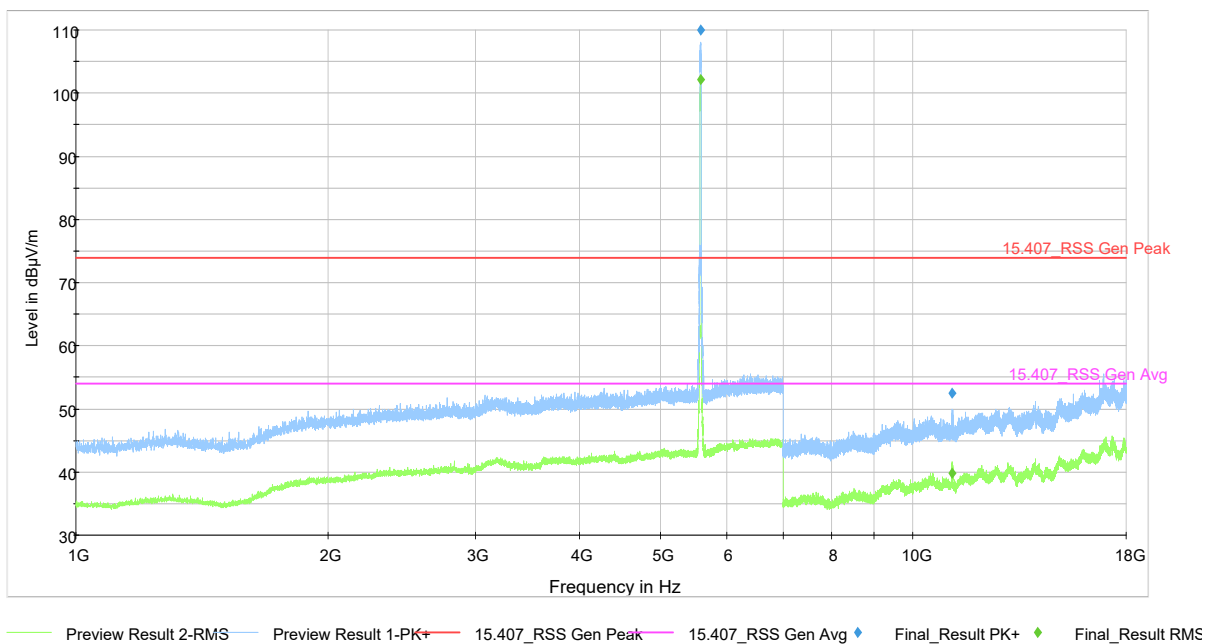


Figure 630. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 116)

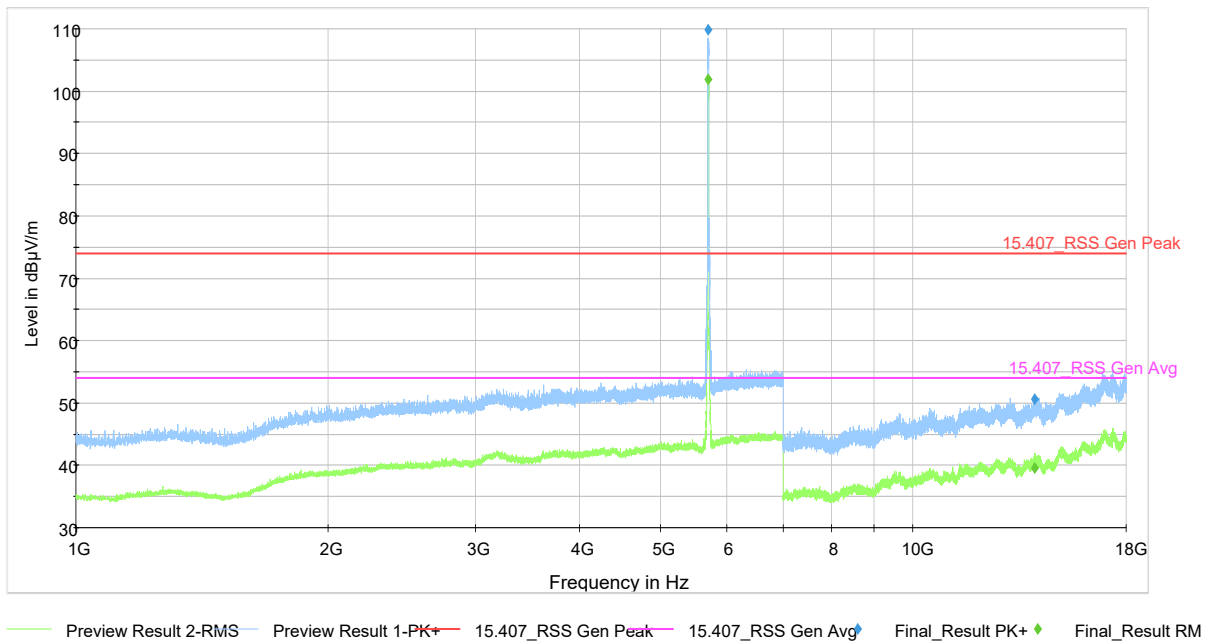


Figure 631. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 140)

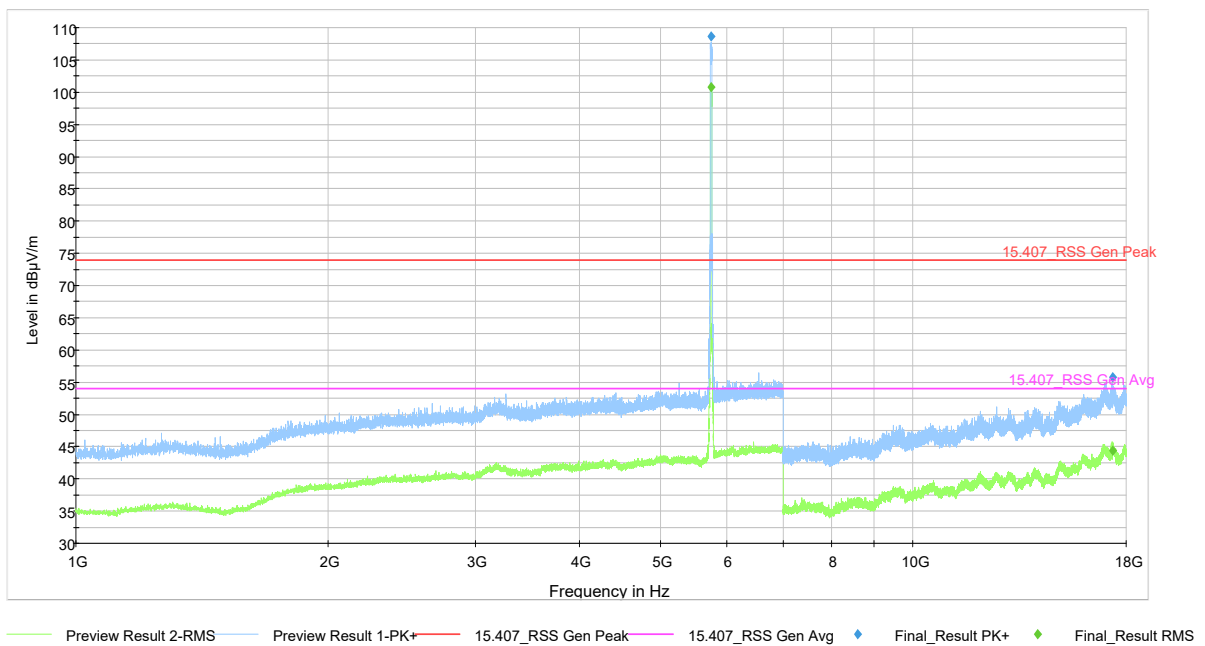


Figure 632. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 149)

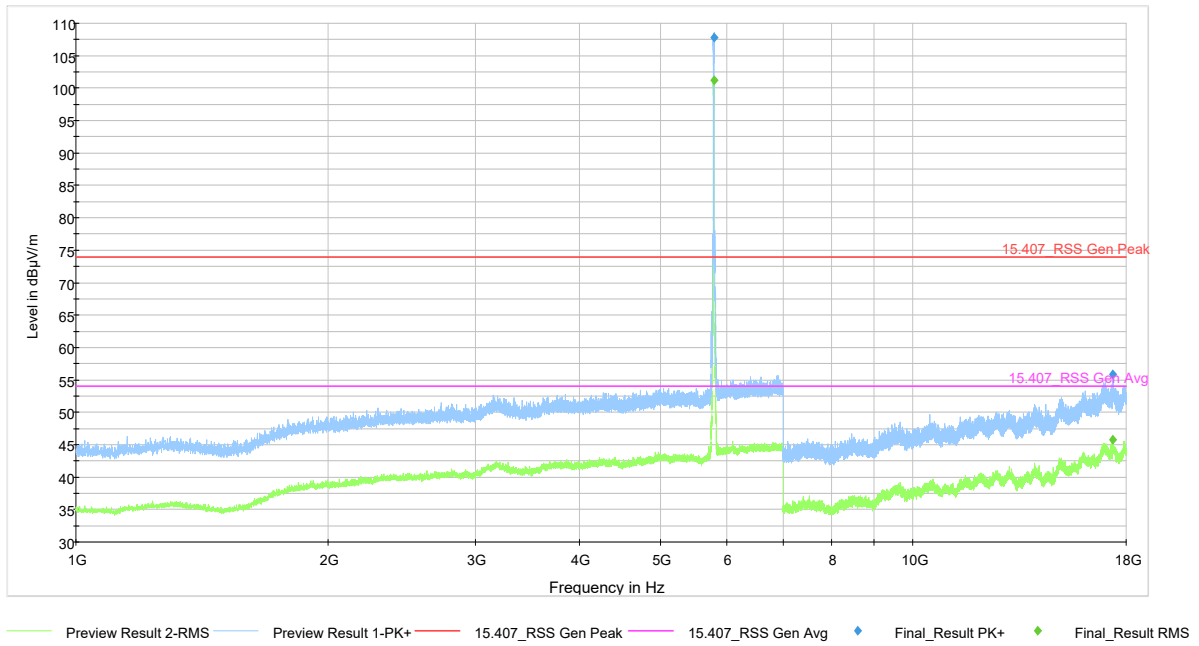


Figure 633. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 157)

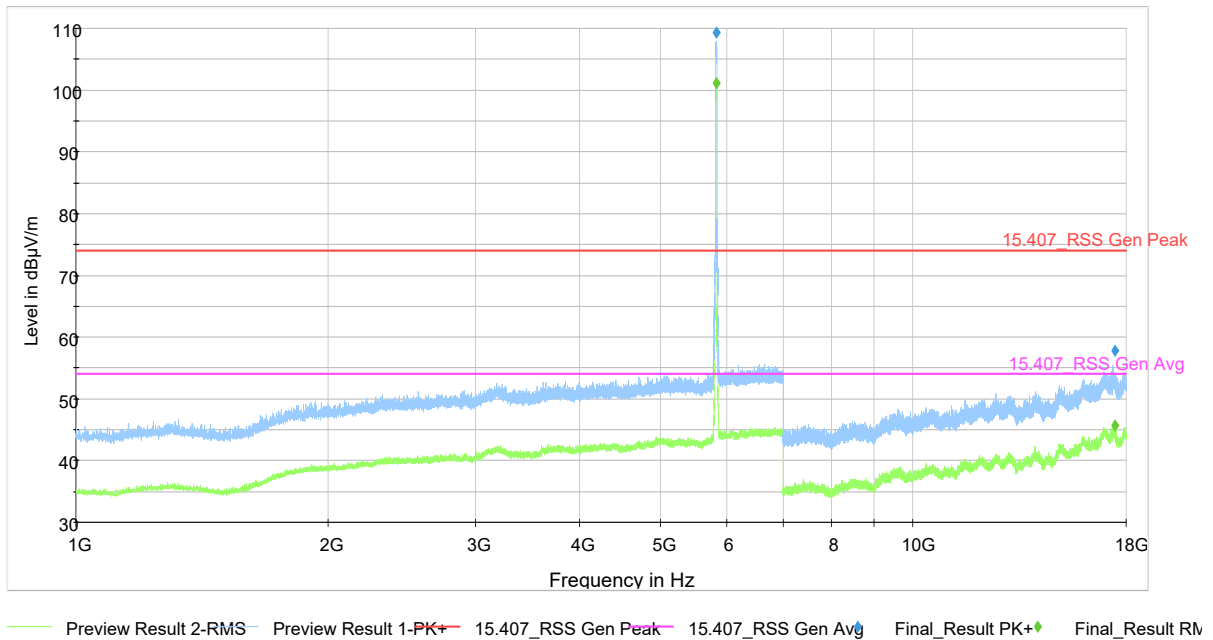


Figure 634. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT20 (Ch. 165)

9.7.5.5 Radiated Emissions in 1-18 GHz range 802.11n HT40

RSE - 18GHz Average Data – 802.11n HT20 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Avg. Amplitude (dBµV)	Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
38	5190	No emissions were observed above the noise floor					
46	5230	No emissions were observed above the noise floor					
54	5270	No emissions were observed above the noise floor					
62	5310	15943.38	21.72	20.6	42.32	54	-11.68
102	5510	No emissions were observed above the noise floor					
110	5550	No emissions were observed above the noise floor					
134	5670	No emissions were observed above the noise floor					
151	5755	No emissions were observed above the noise floor					
159	5795	No emissions were observed above the noise floor					

RSE - 18GHz Peak Data – 802.11n HT20 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Peak Amplitude (dBµV)	Correction Factor (dB)	Corrected Peak Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
38	5190	No emissions were observed above the noise floor					
46	5230	No emissions were observed above the noise floor					
54	5270	No emissions were observed above the noise floor					
62	5310	15965.86	32.73	20.7	53.43	74	-20.57
102	5510	No emissions were observed above the noise floor					
110	5550	No emissions were observed above the noise floor					
134	5670	No emissions were observed above the noise floor					
151	5755	No emissions were observed above the noise floor					
159	5795	No emissions were observed above the noise floor					

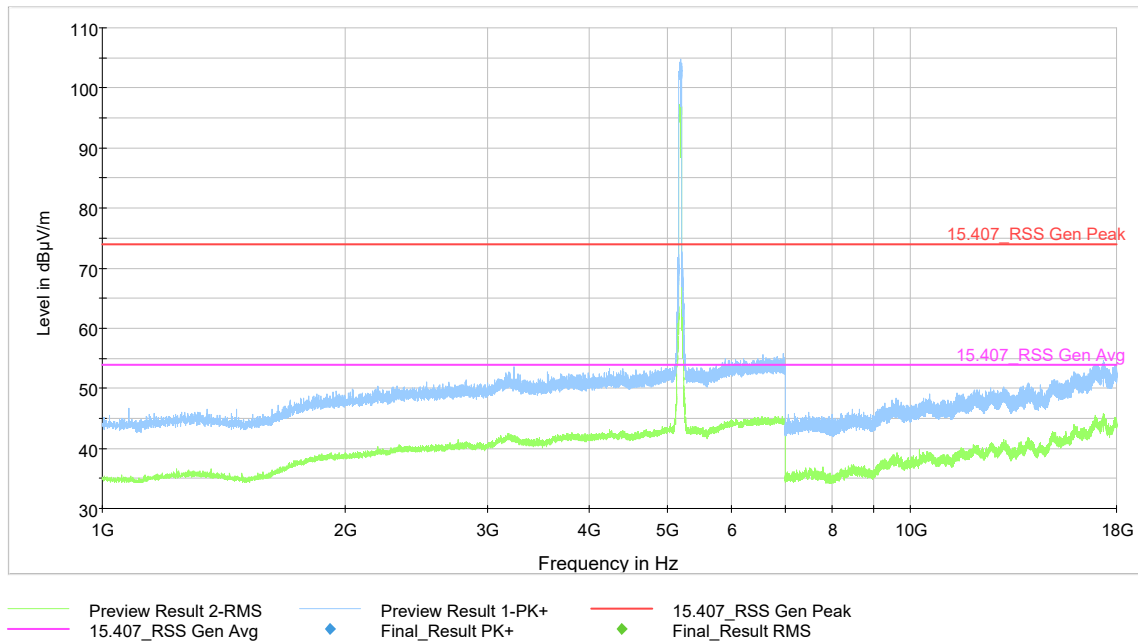


Figure 635. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 38)

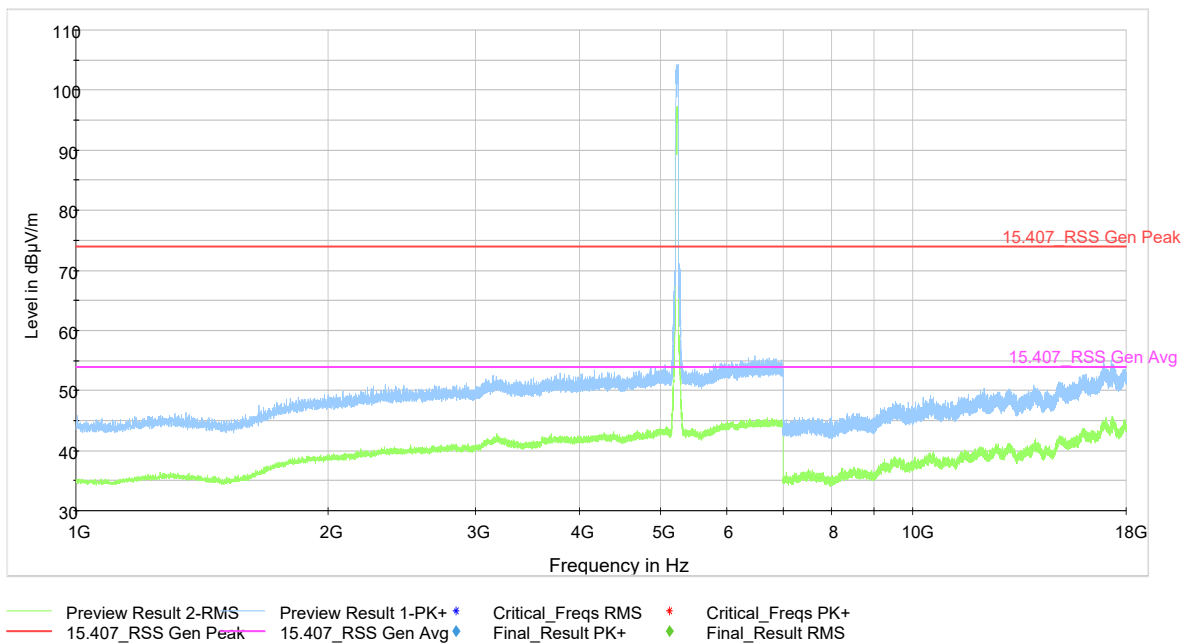


Figure 636. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 46)

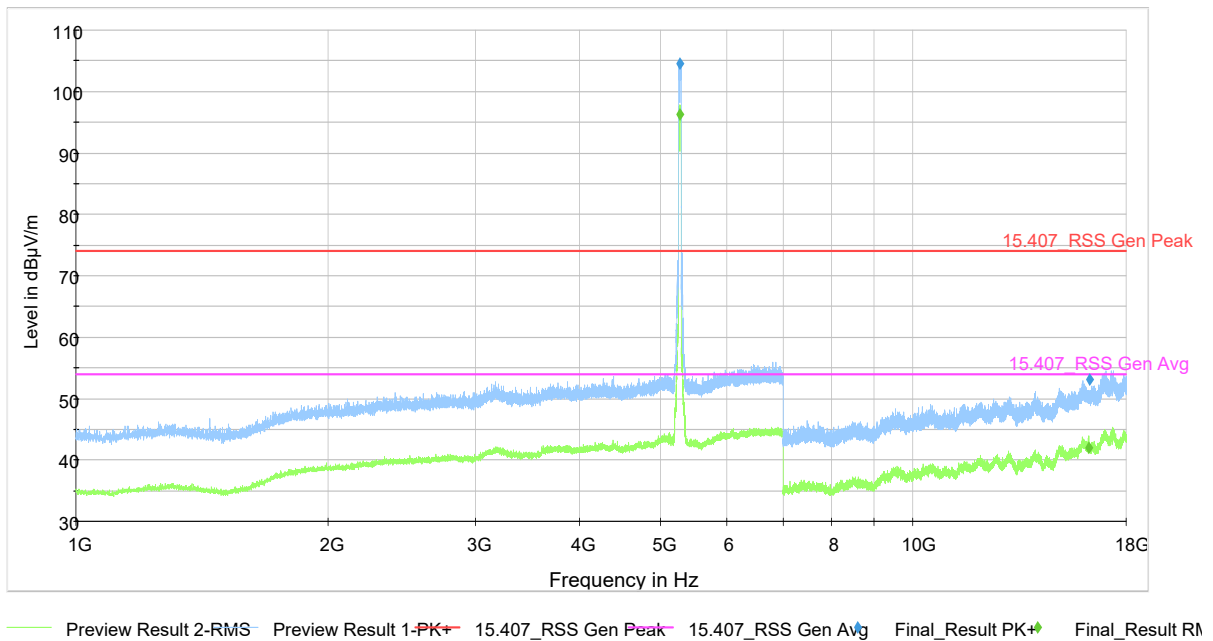


Figure 637. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 54)

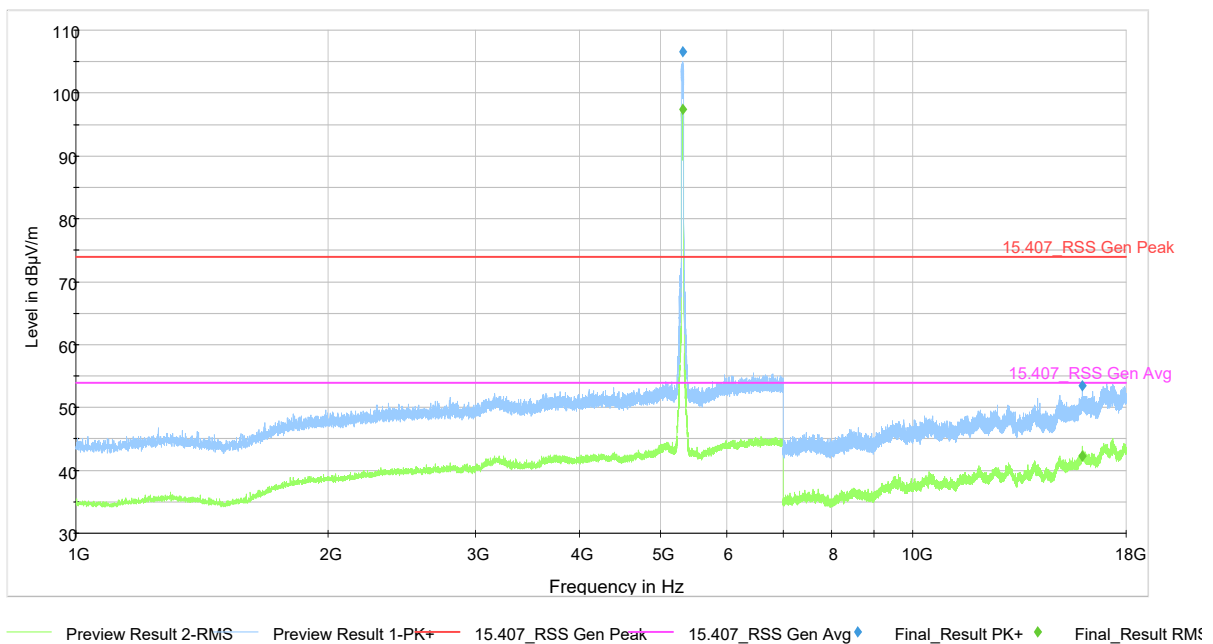


Figure 638. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 62)

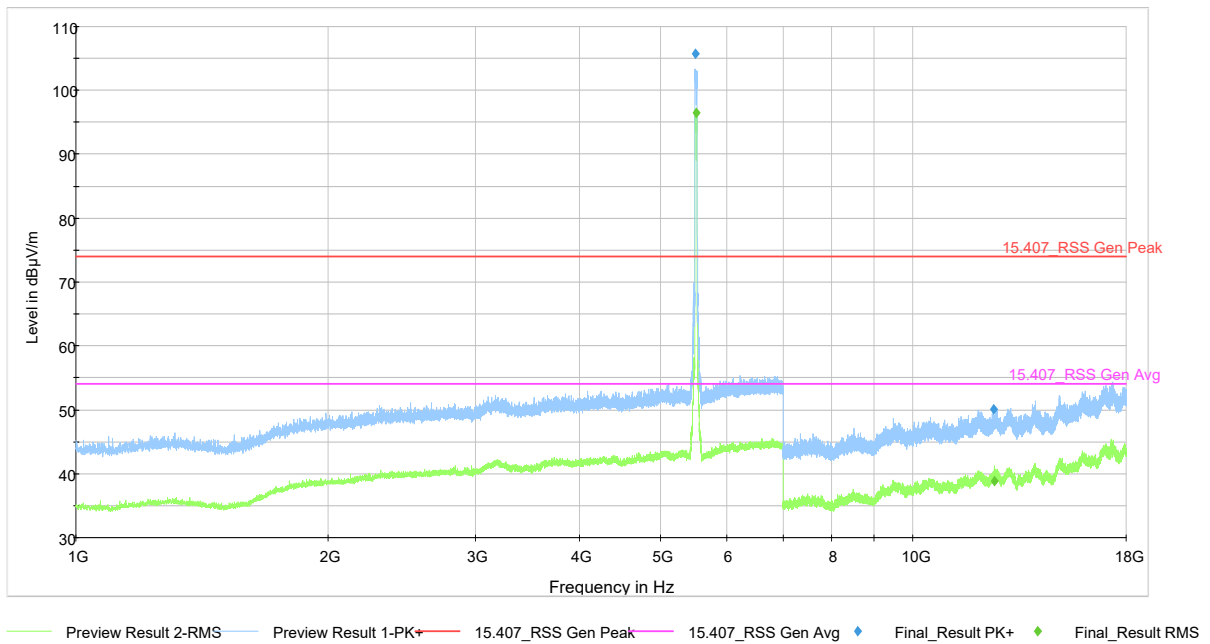


Figure 639. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 102)

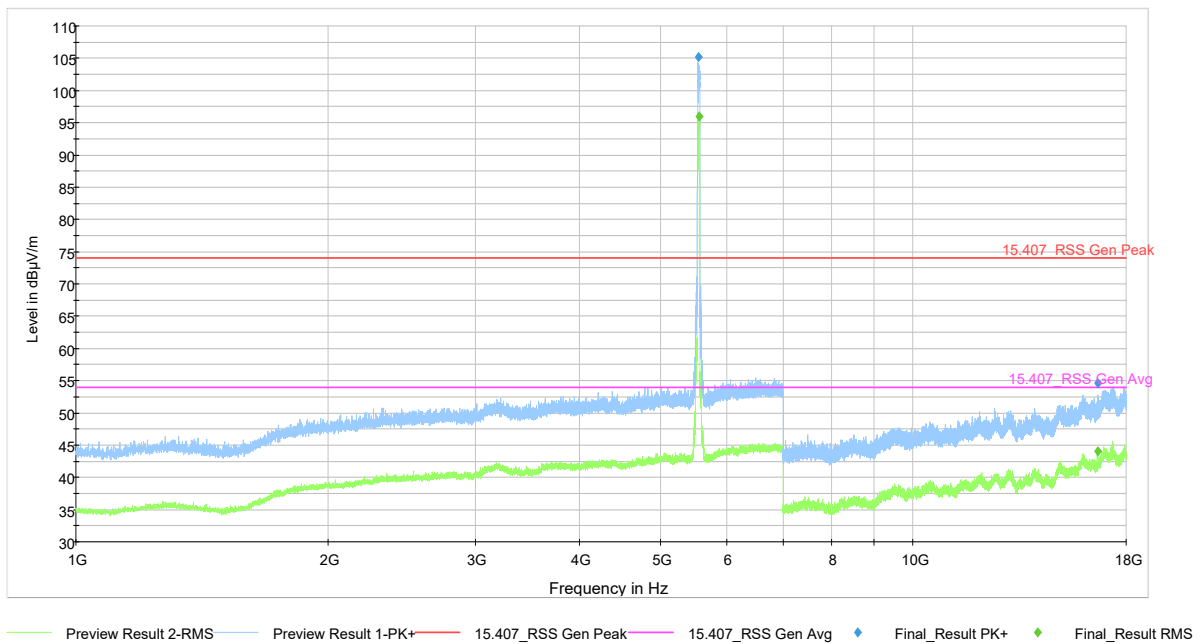


Figure 640. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 110)

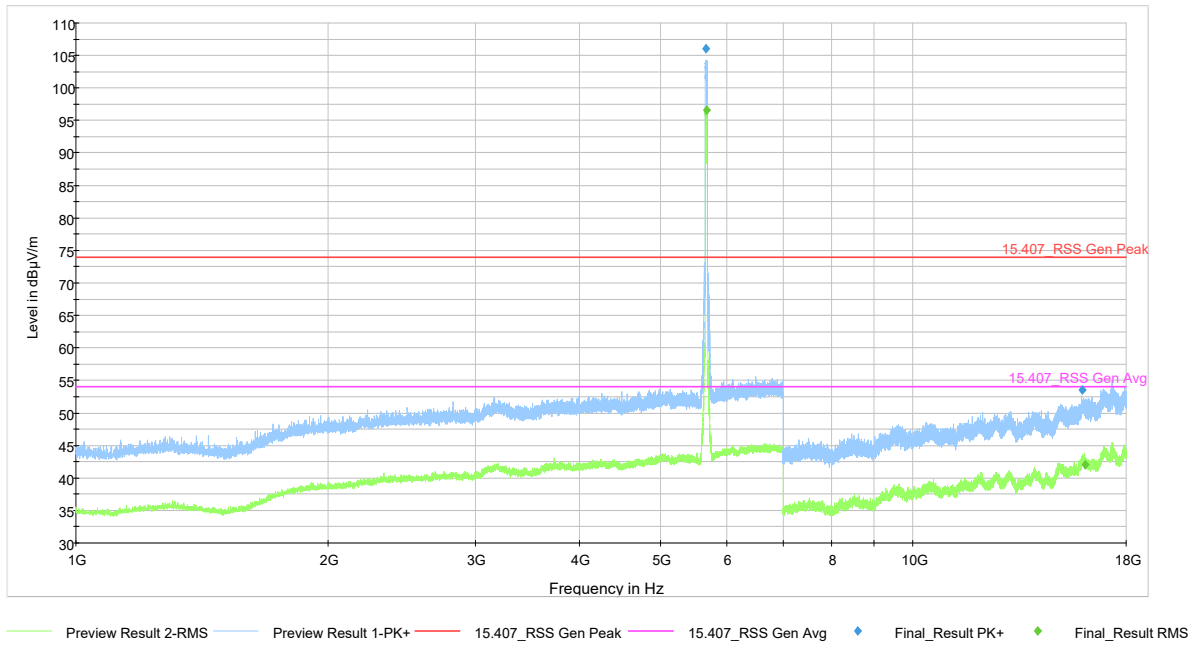


Figure 641. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 134)

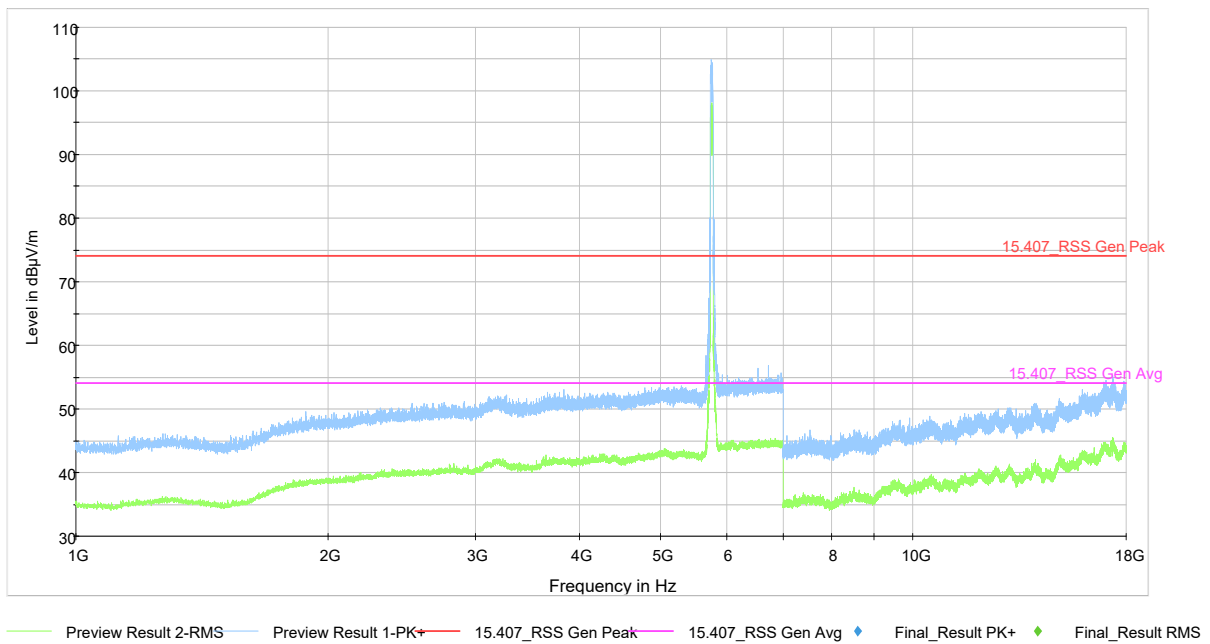


Figure 642. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 151)

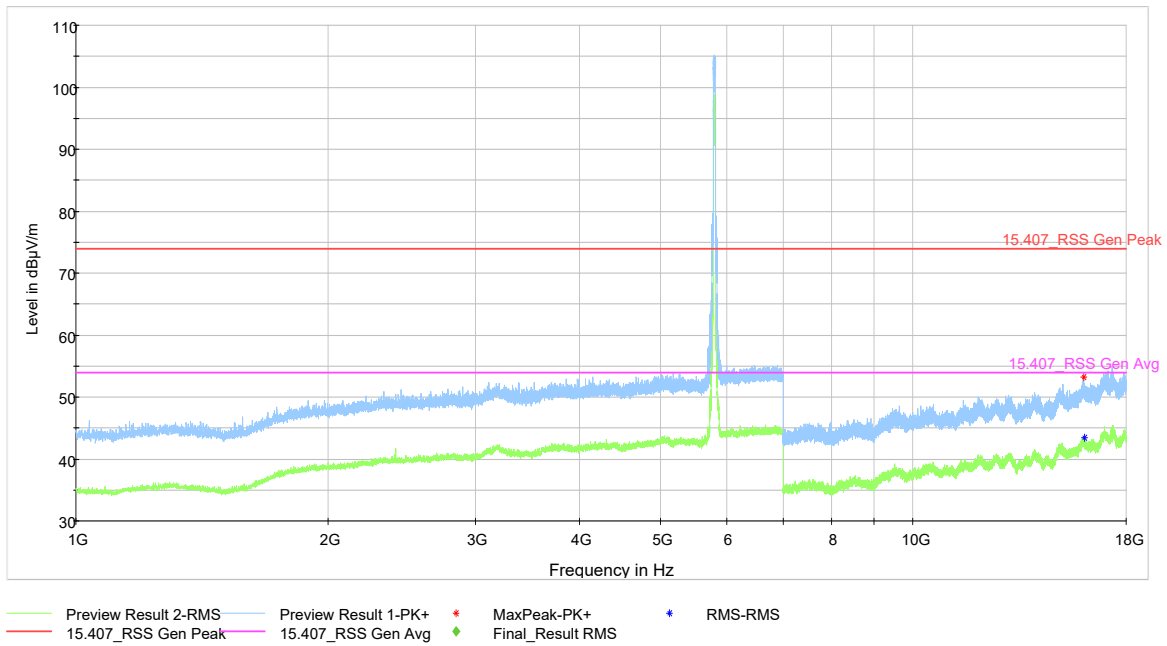


Figure 643. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11n HT40 (Ch. 159)

9.7.5.6 Radiated Emissions in 1-18 GHz range 802.11ac VHT40

RSE - 18GHz Average Data – 802.11ac VHT40 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Avg. Amplitude (dBµV)	Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
38	5190	15582.75	24.69	19.8	44.49	54	-10.90
46	5230	15682.65	25.74	20.1	45.84	54	-8.16
54	5270	15818.68	24.75	20.4	45.15	54	-8.85
62	5310	15934.88	24.09	20.5	44.59	54	-9.41
102	5510	11021.36	25.6	16.0	41.60	54	-12.40
102	5510	16537.48	22.82	21.4	44.22	54	-9.78
110	5550	11098.70	22.44	16.2	38.64	54	-15.36
110	5550	16654.69	22.79	21.7	44.49	54	-9.51
134	5670	11338.70	22.8	16.0	38.80	54	-15.20
151	5755	No emissions observed above the noise floor					
159	5795	No emissions observed above the noise floor					

RSE - 18GHz Peak Data – 802.11ac VHT40 Simultaneous Transmission							
Channel No.	Carrier Frequency (MHz)	Emission Frequency (MHz)	Raw Peak Amplitude (dBµV)	Correction Factor (dB)	Corrected Peak Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
38	5190	15579.7	36.62	19.8	56.42	74	-17.58
46	5230	15698.77	37.53	20.1	57.63	74	-16.37
54	5270	15818.86	37.73	20.4	58.13	74	-15.87
62	5310	15934.88	37.64	20.5	58.14	74	-15.86
102	5510	11017.18	36.9	15.9	52.80	74	-21.20
102	5510	16534.25	35.19	21.4	56.59	74	-17.41
110	5550	11102.48	34.4	16.2	50.60	74	-23.40
110	5550	16654.91	35.91	21.7	57.61	74	-16.39
134	5670	11338.93	35.27	16.0	51.27	74	-22.73
151	5755	No emissions observed above the noise floor					
159	5795	No emissions observed above the noise floor					

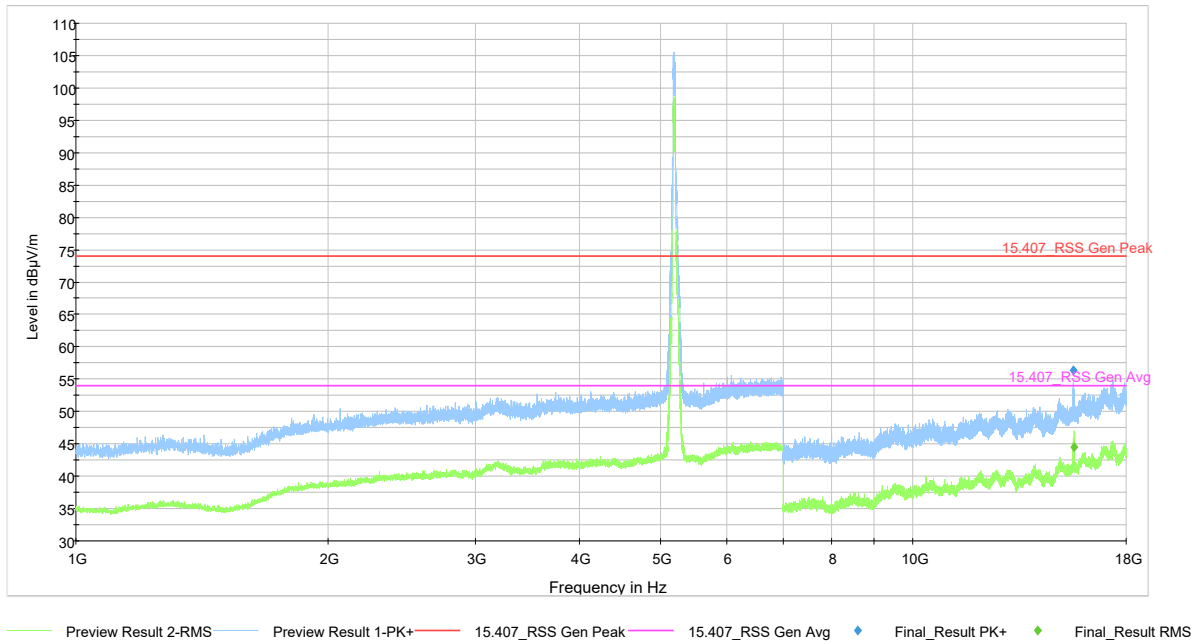


Figure 644. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 38)

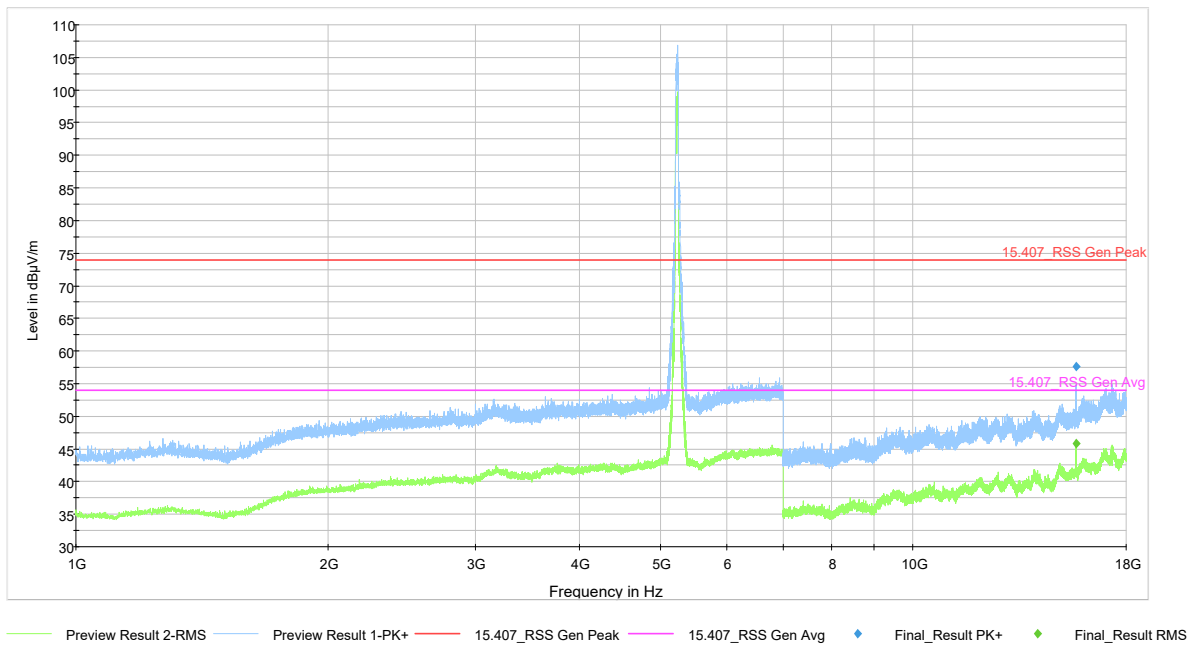


Figure 645. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 46)

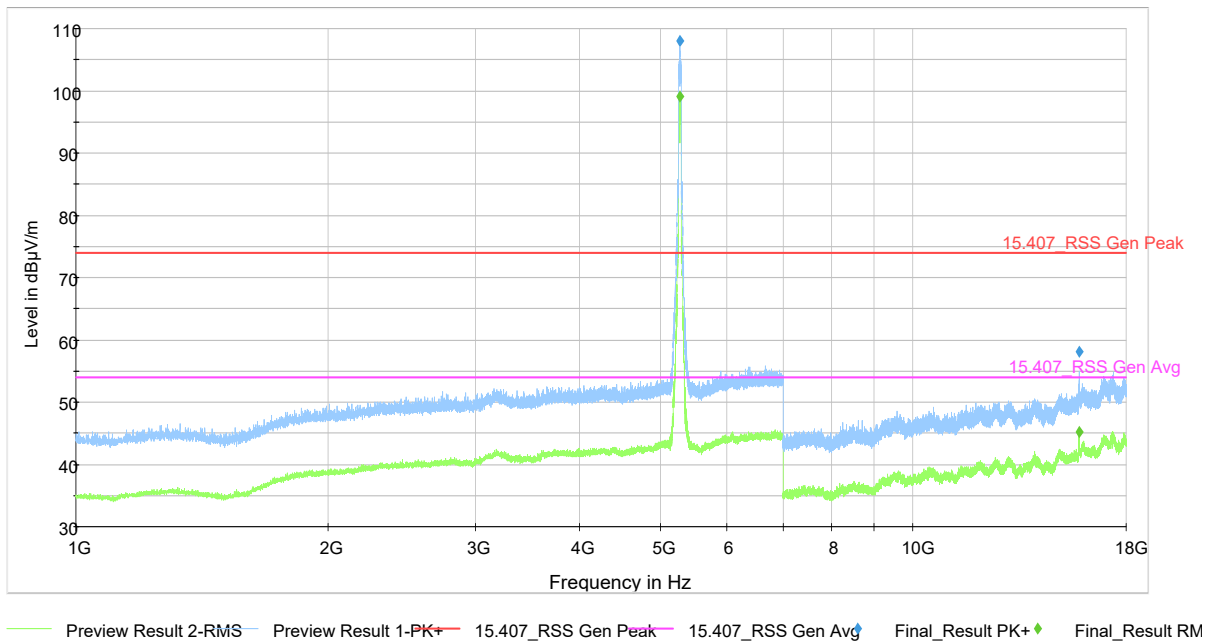


Figure 646. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 54)

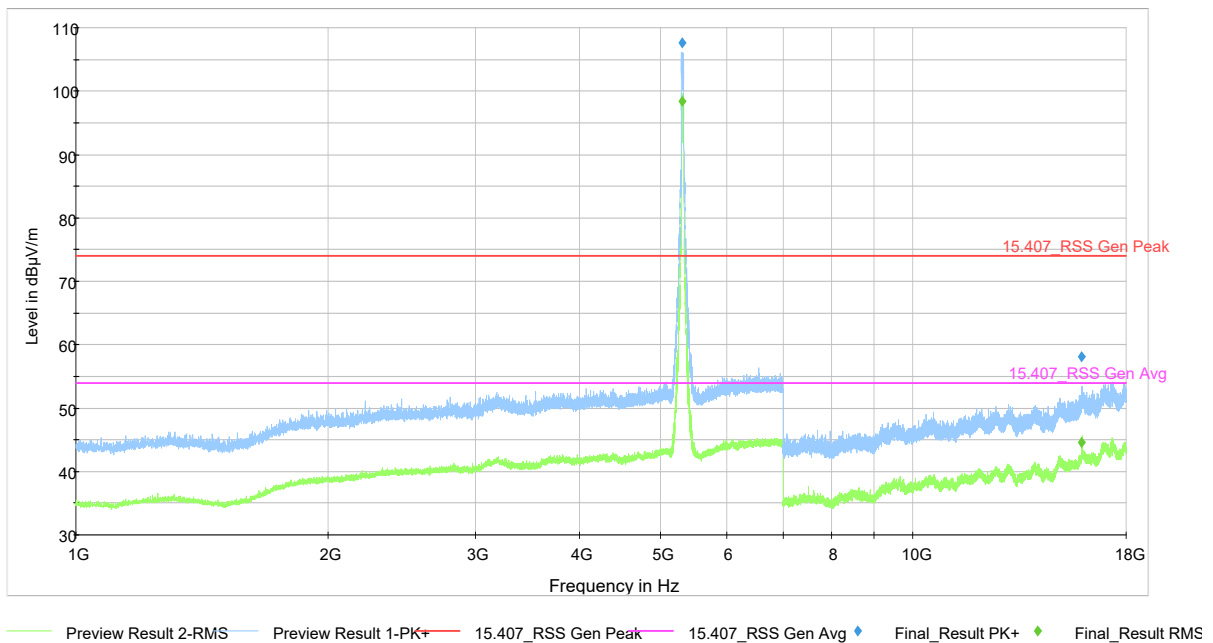


Figure 647. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 62)

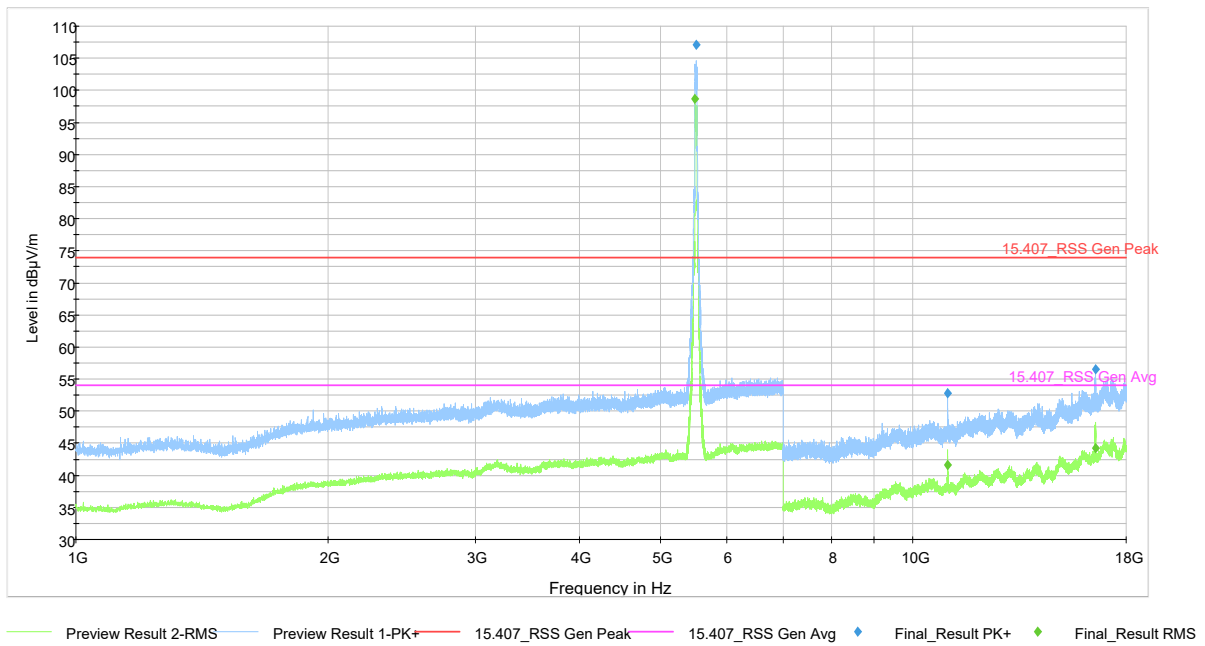


Figure 648. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 102)

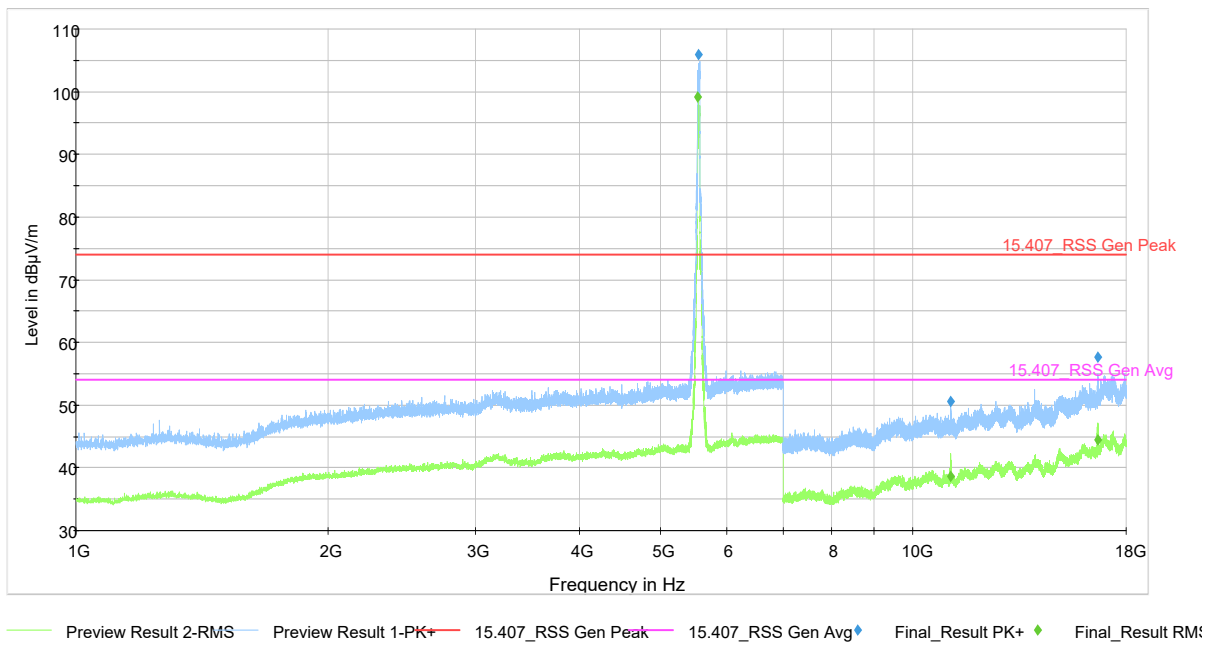


Figure 649. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 110)

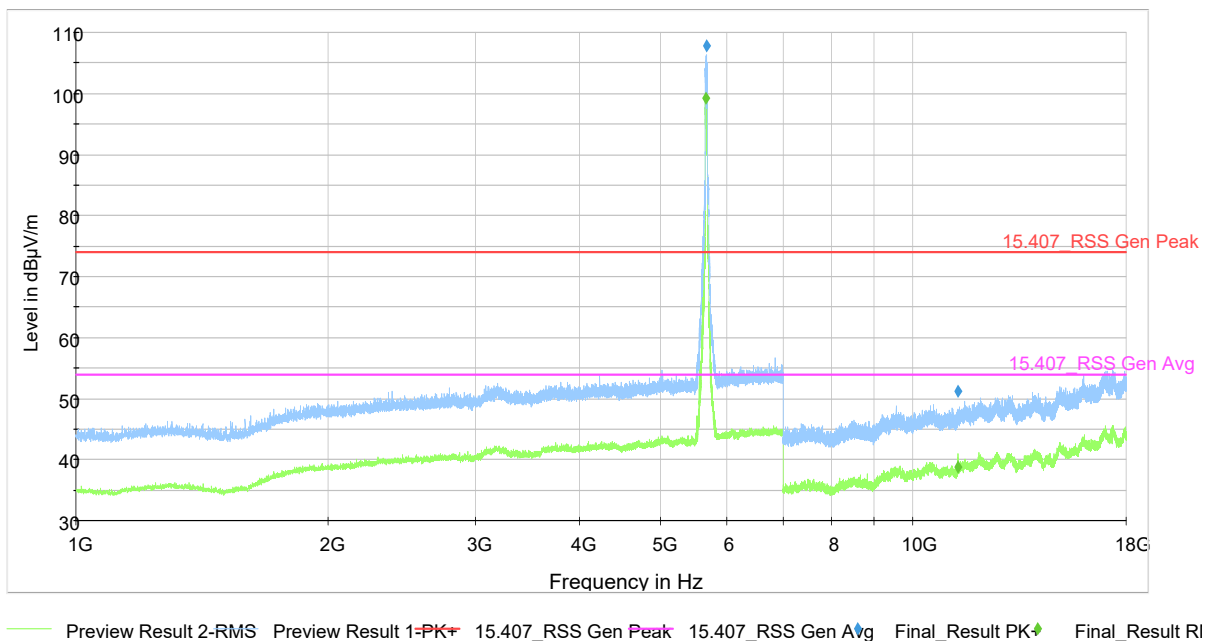


Figure 650. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 134)

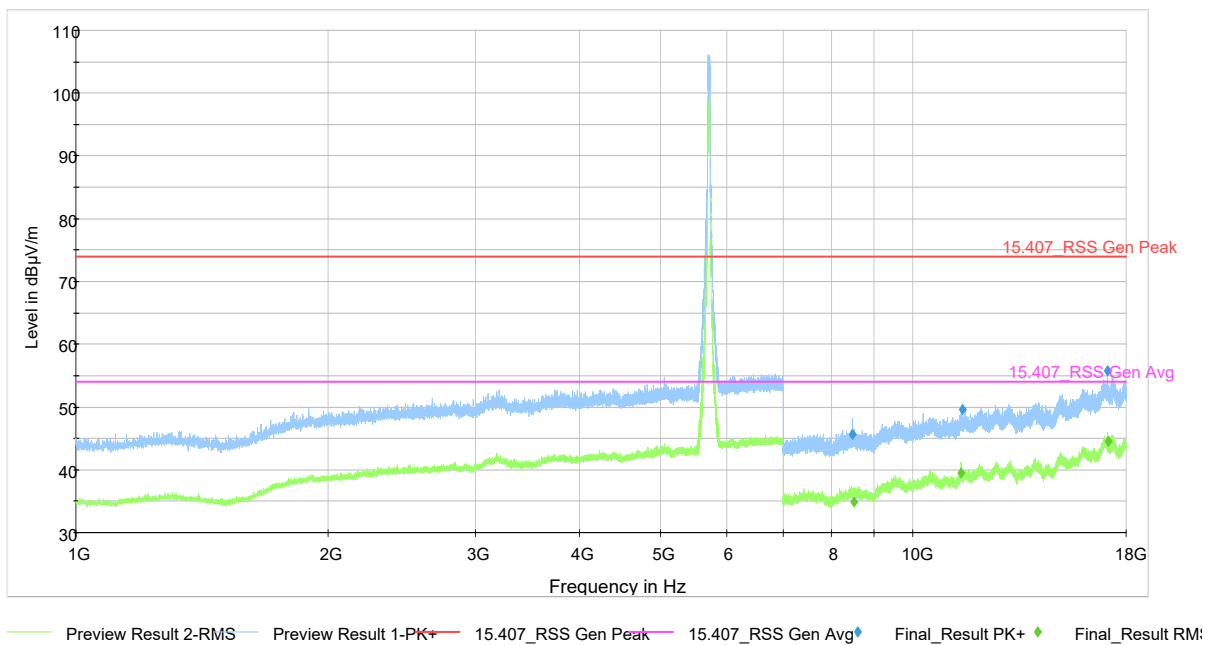


Figure 651. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 151)

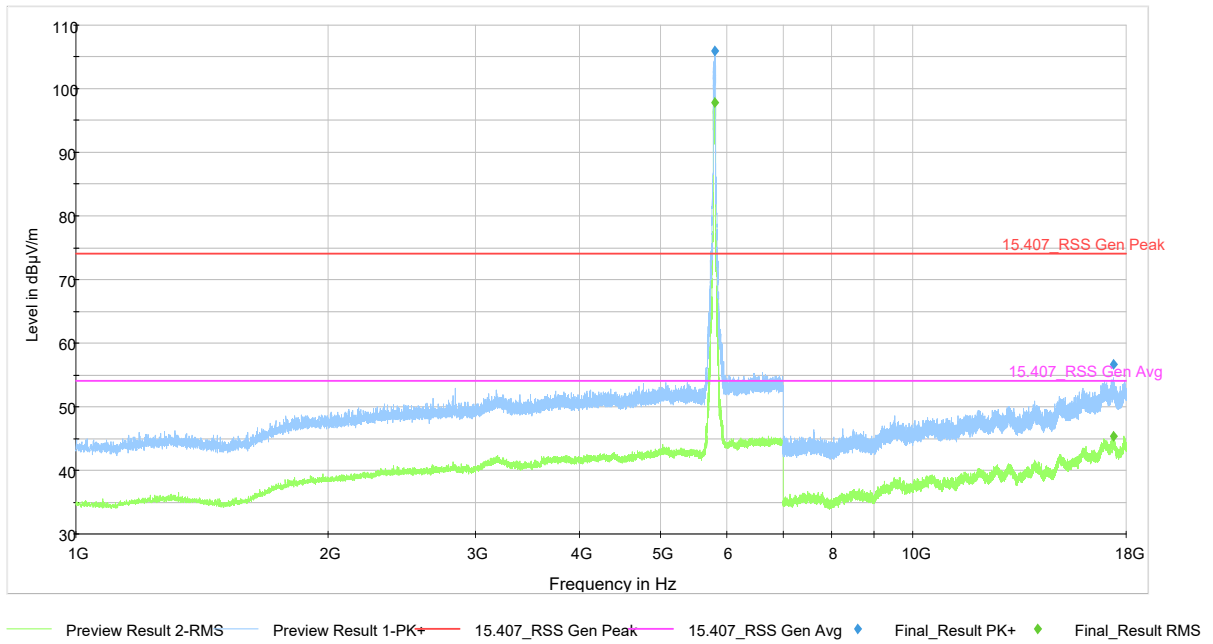


Figure 652. Radiated Spurious Emissions 1-18 GHz Tx Chains A & B 802.11ac VHT40 (Ch. 159)