5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.
Set the spectrum analyzer in the following:
9kHz~150 kHz
RBW=200Hz, VBW=1kHz/ Sweep=AUTO
150 kHz~30MHz
RBW=9kHz, VBW=30kHz,/ Sweep=AUTO
Below 1GHz
RBW=100kHz / VBW=300kHz / Sweep=AUTO
a) Peak emission levels are measured by setting the instrument as follows:
Above 1GHz
PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
b) Average emission levels are measured by setting the instrument as follows:
Above 1GHz
AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO
c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
e) Sweep time = auto.
f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and

OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

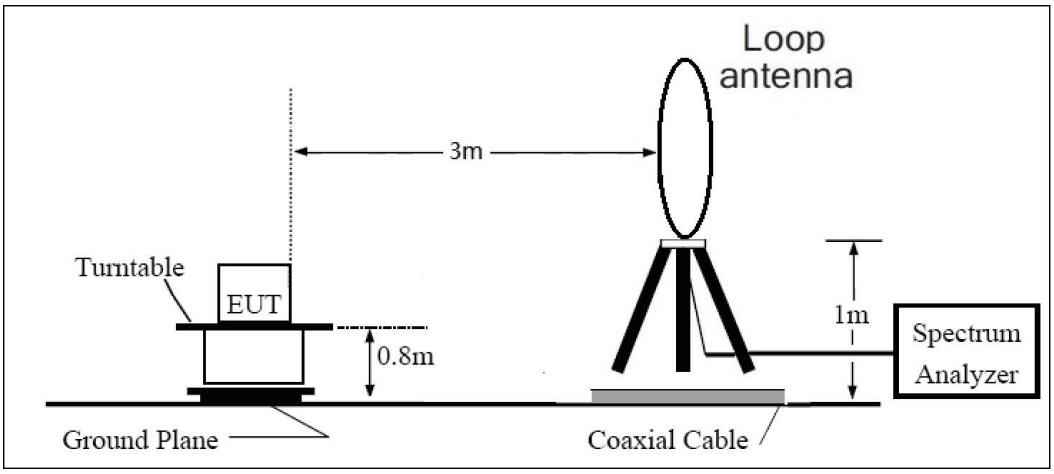
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than [1 / (minimum transmitter on time)] and no less than 1 Hz.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

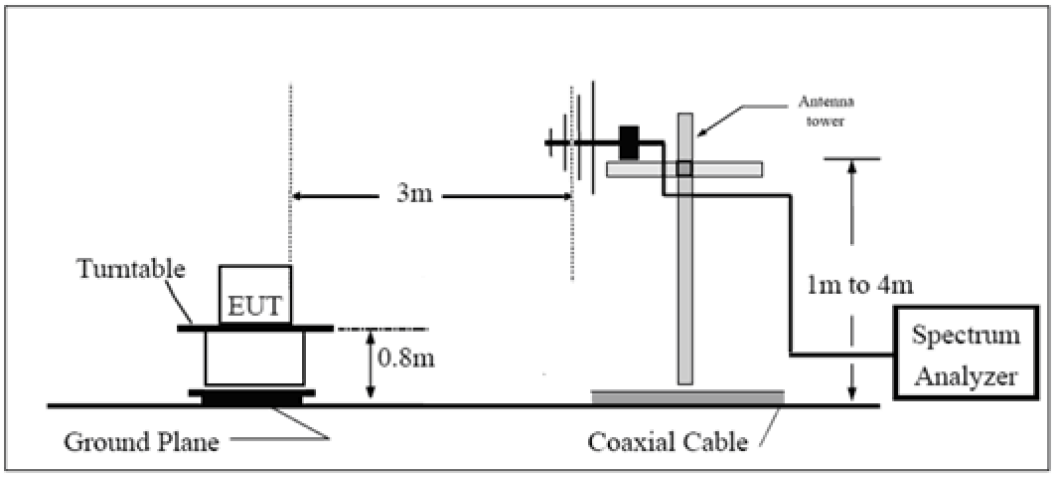
The test is in transmitting mode.

Test setup

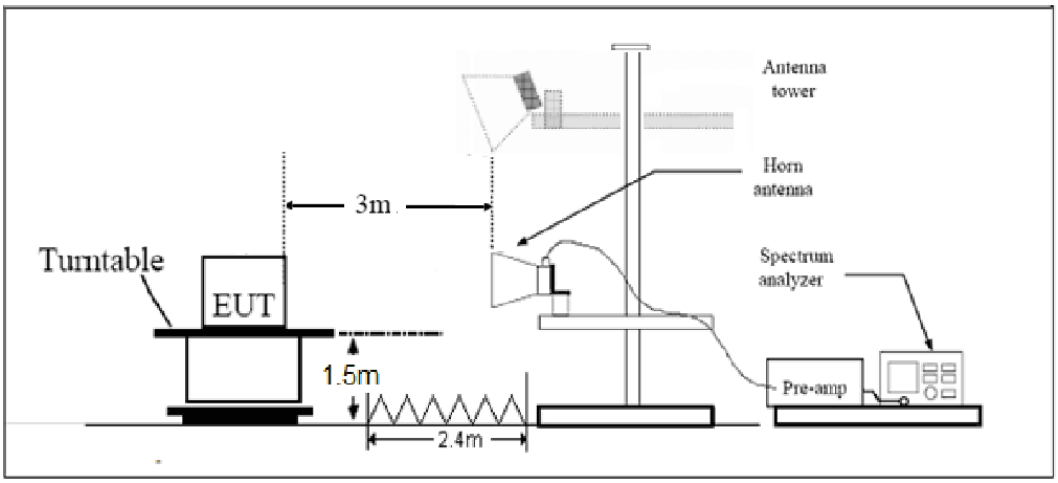
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

(1) For transmitters operating in the 5725-5850 MHz 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.

(2) 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(68.2dBμV/m).

(3) 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(68.2dBμV/m).

(4) 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(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、E[dBμV/m] = EIRP[dBm] - 20 log(d[meters]) + 104.77, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters

(5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	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			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

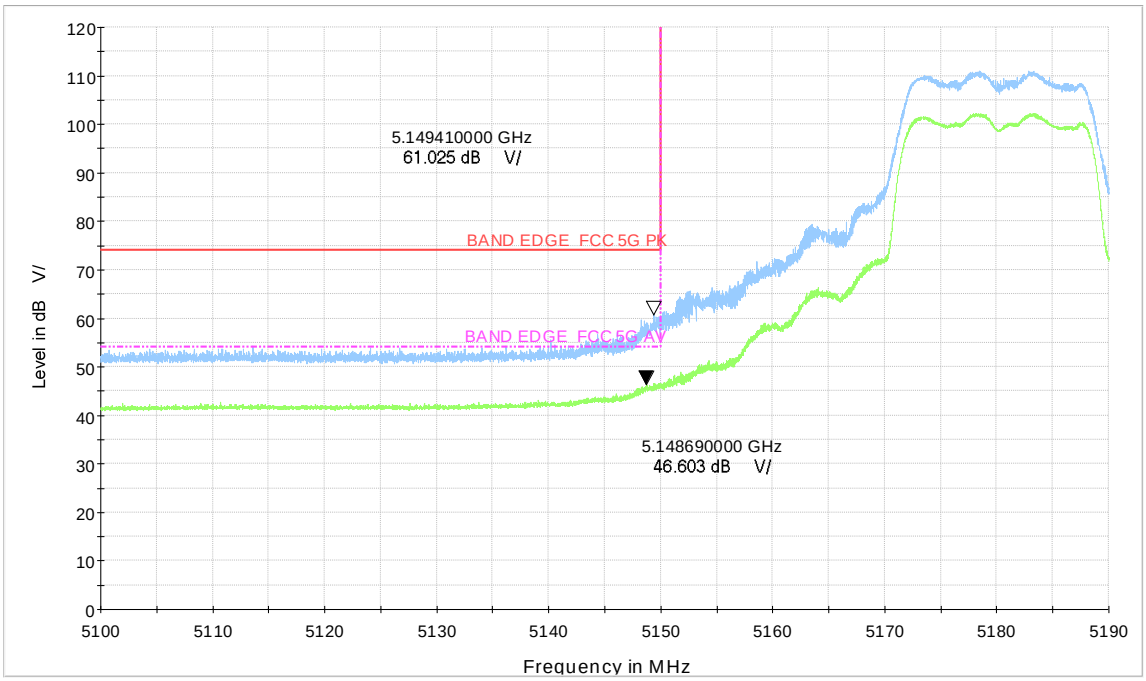
Frequency	Uncertainty
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

Test Results:

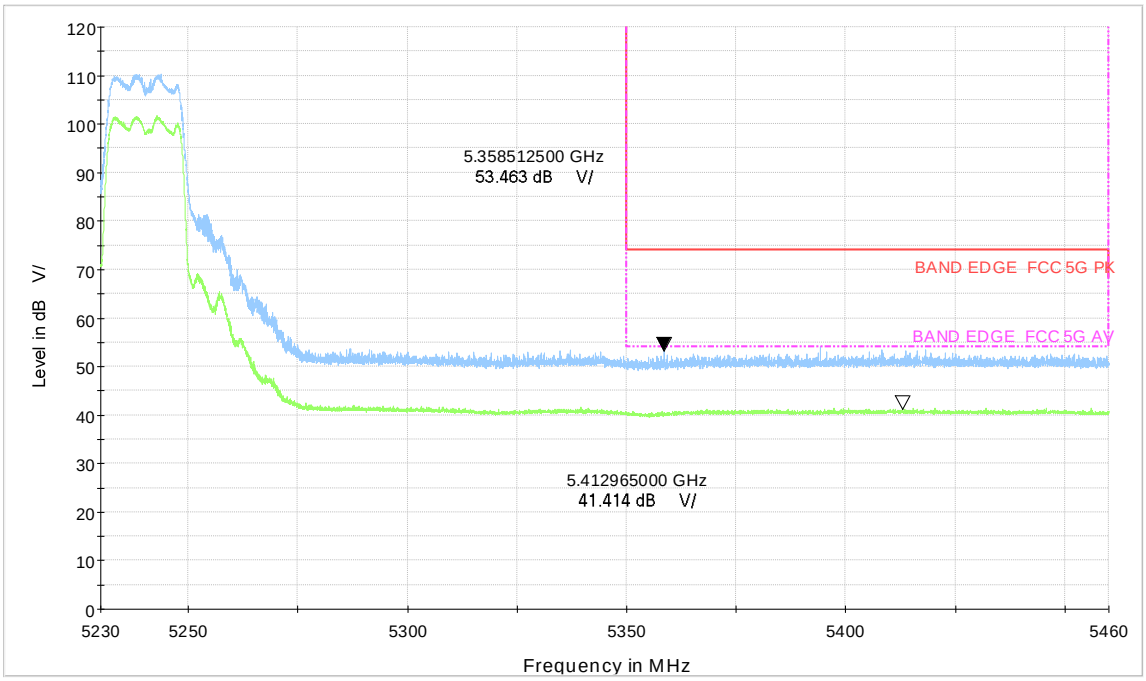
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

A symbol (dB V/) in the test plot below means (dBμV/m)

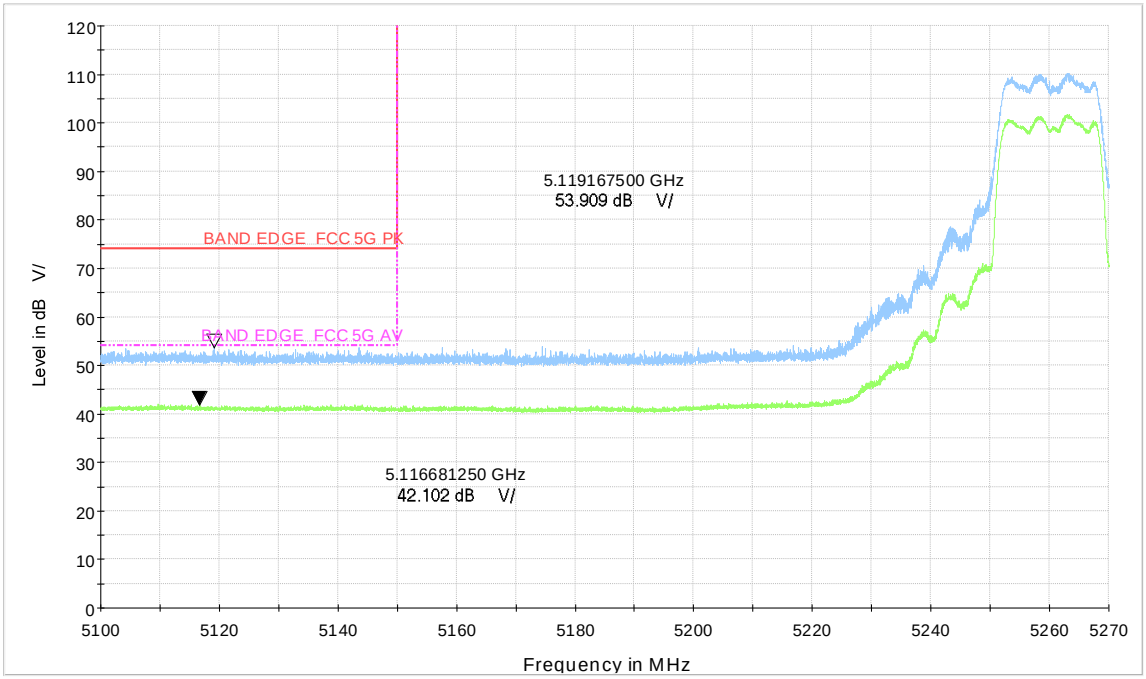
The signal beyond the limit is carrier.



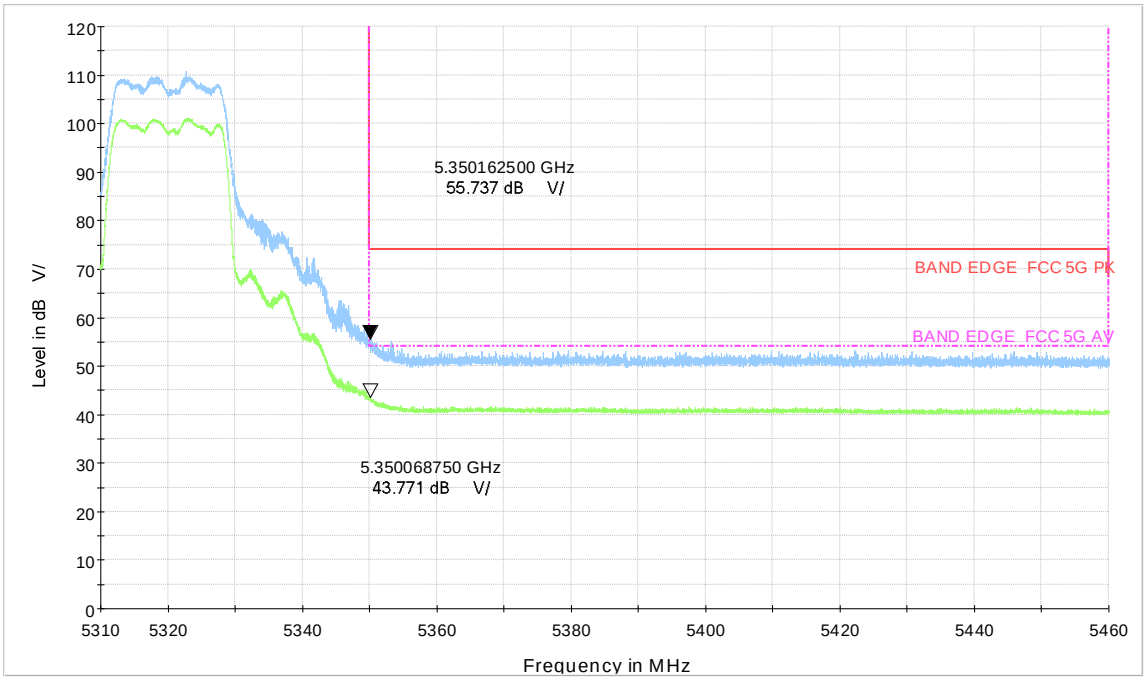
Wi-Fi 5GHz_a CH36



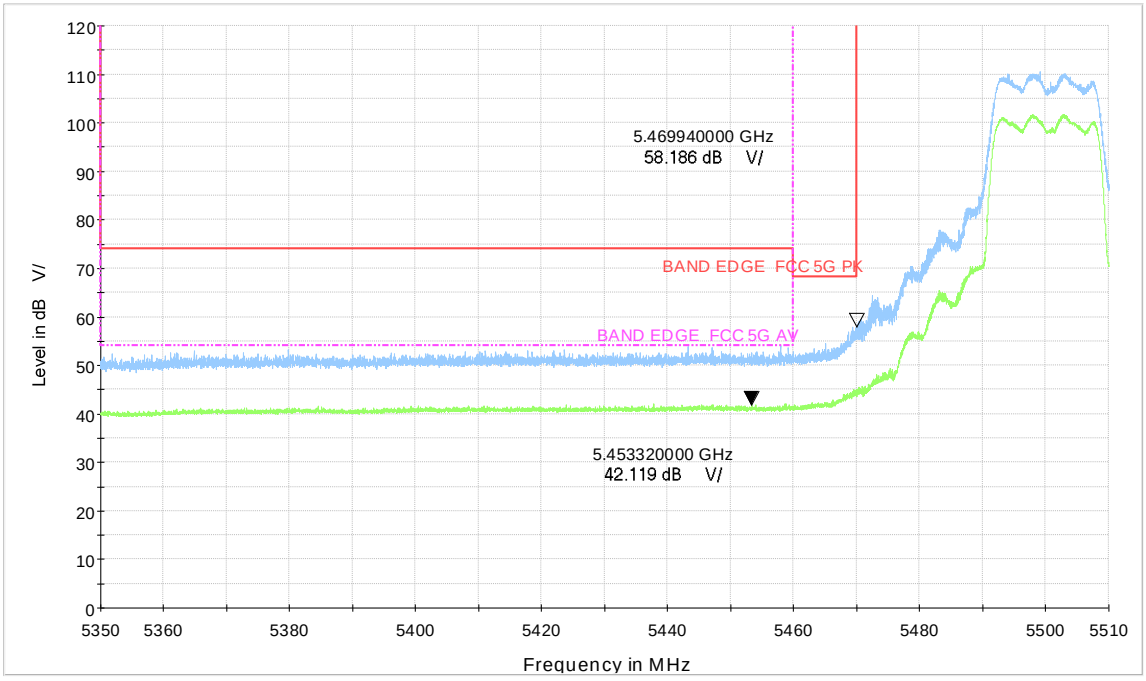
Wi-Fi 5GHz_a CH48



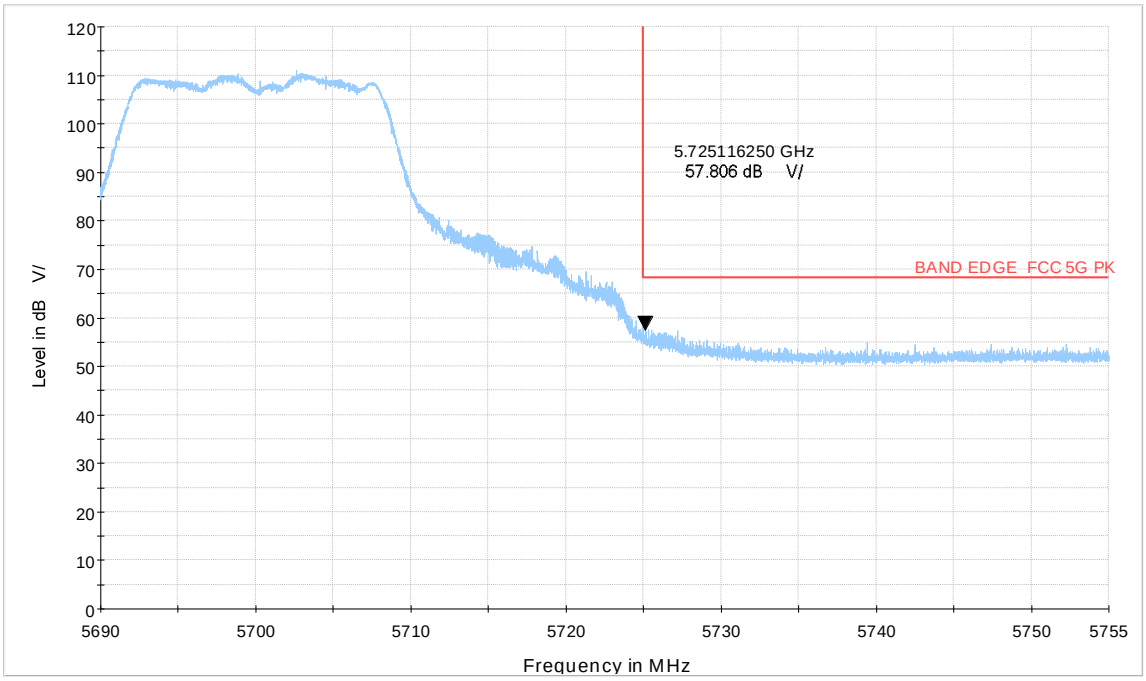
Wi-Fi 5GHz_a CH52



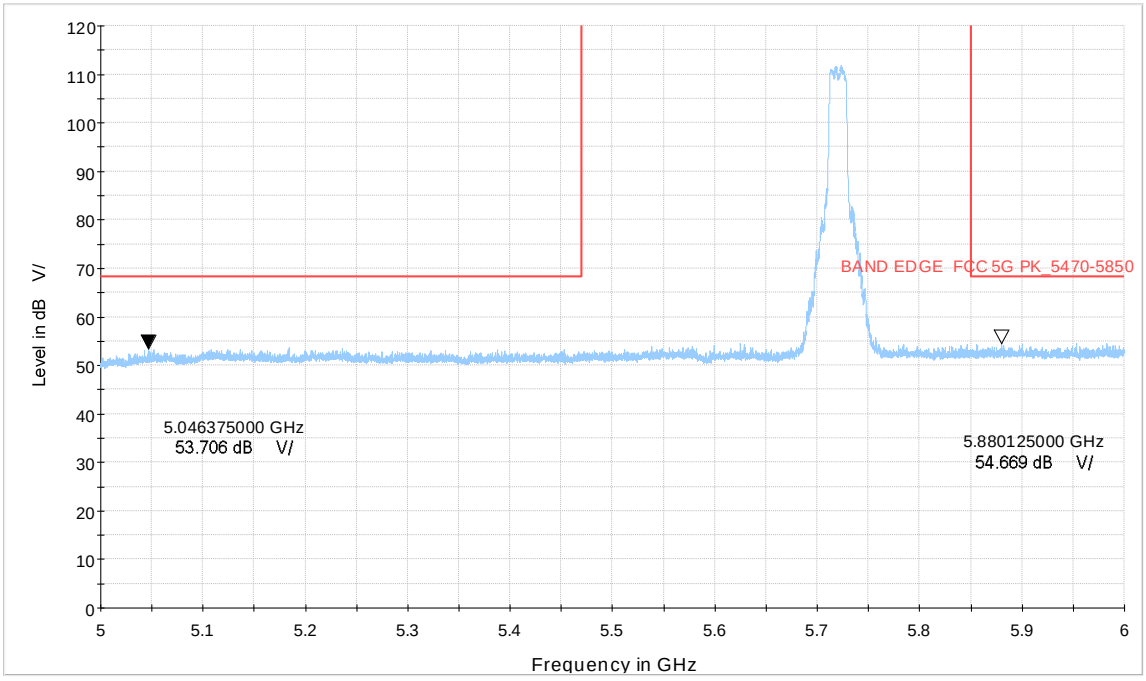
Wi-Fi 5GHz_a CH64



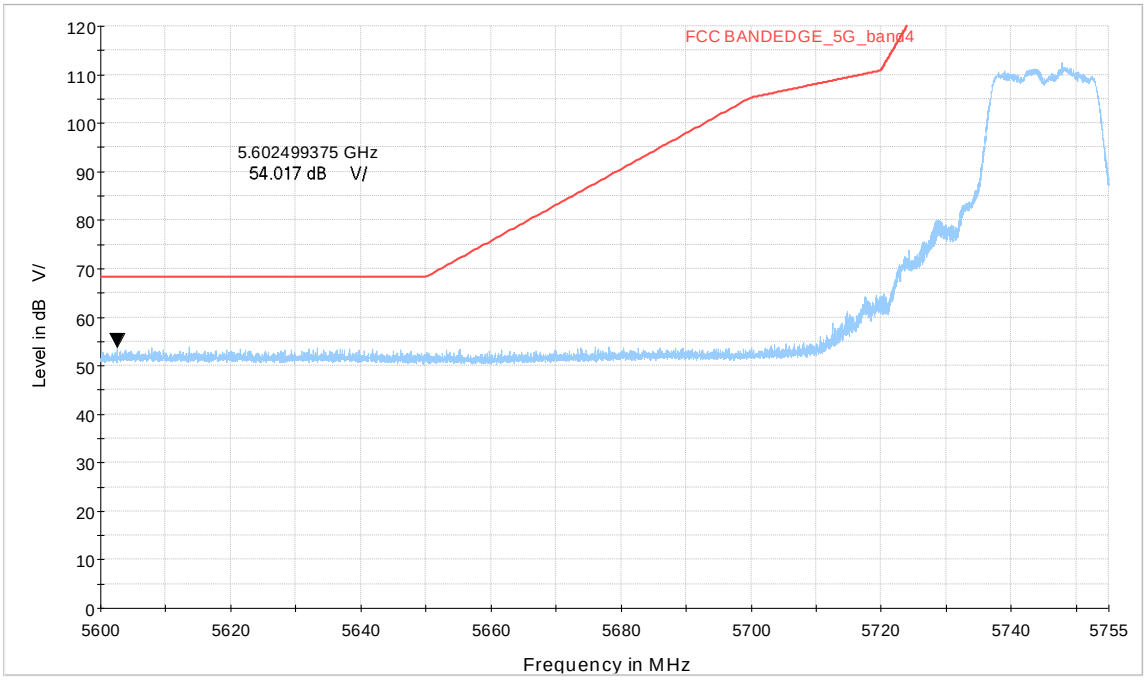
Wi-Fi 5GHz_a CH100



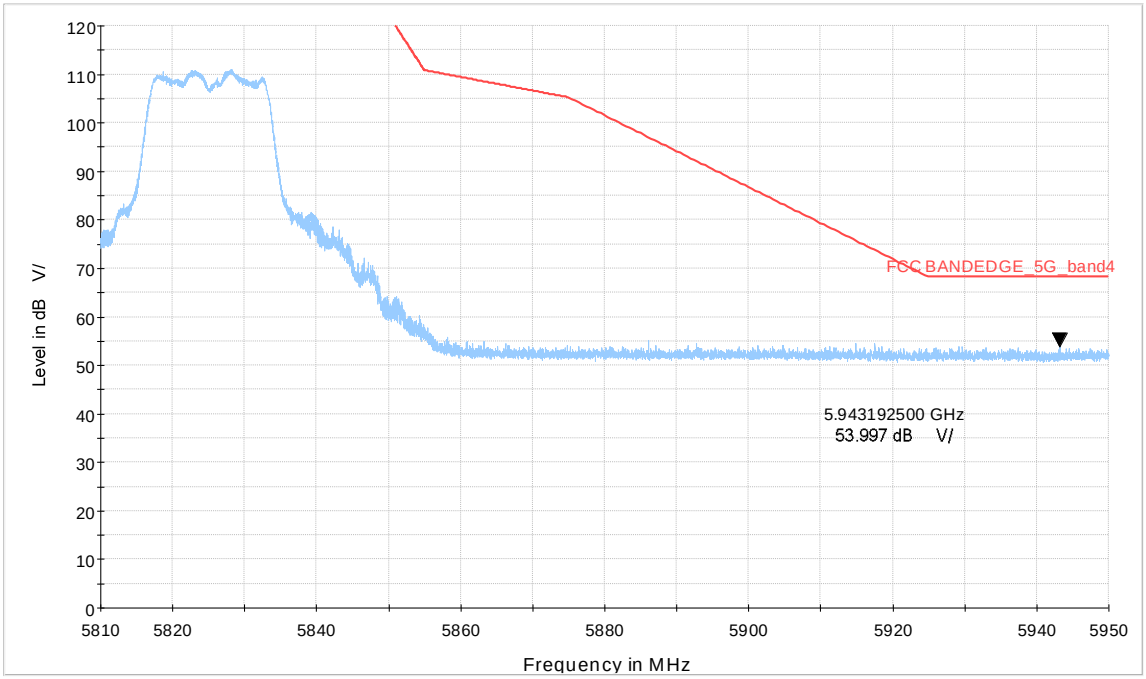
Wi-Fi 5GHz_a CH140



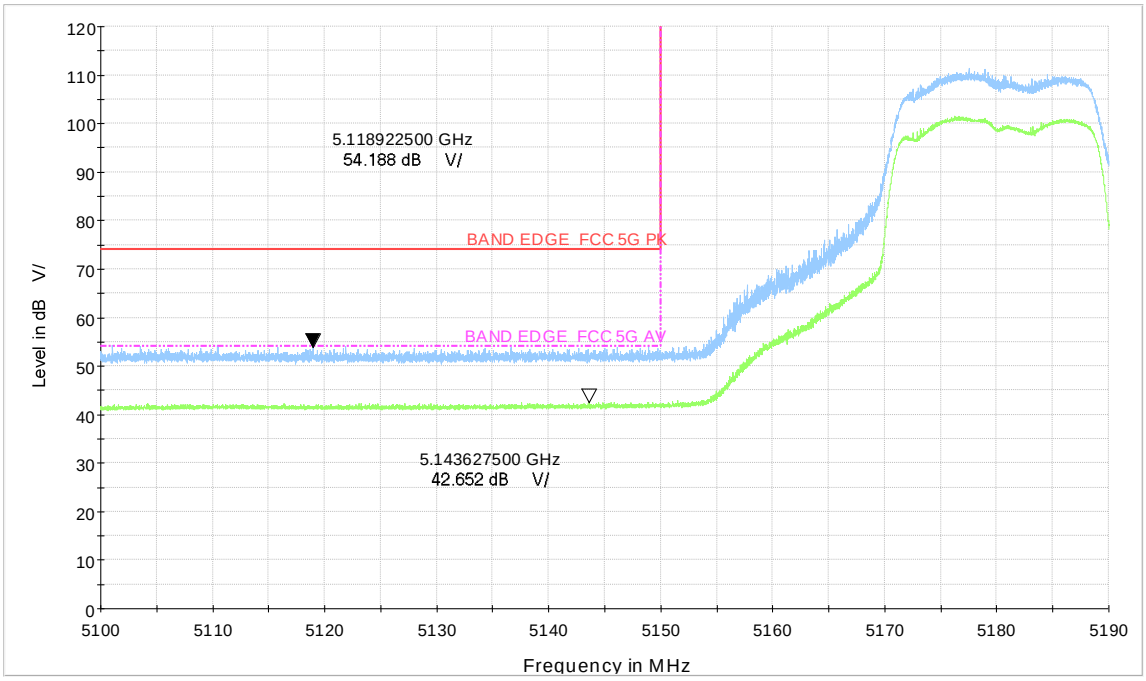
Wi-Fi 5GHz_a CH144



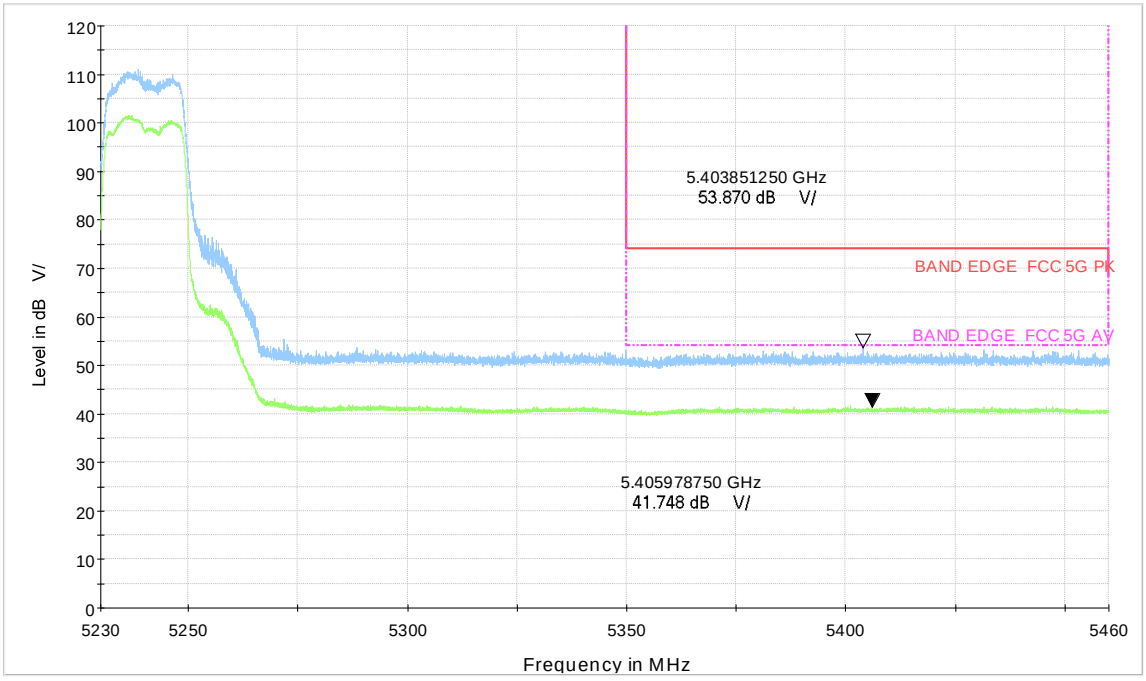
Wi-Fi 5GHz_a CH149



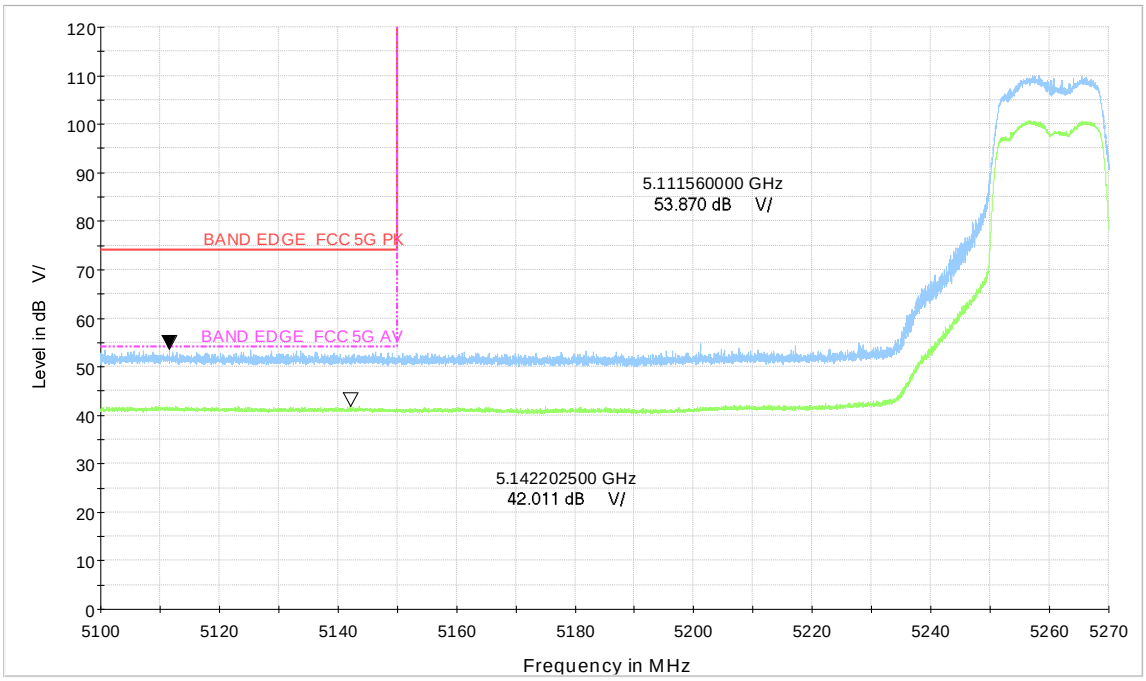
Wi-Fi 5GHz_a CH165



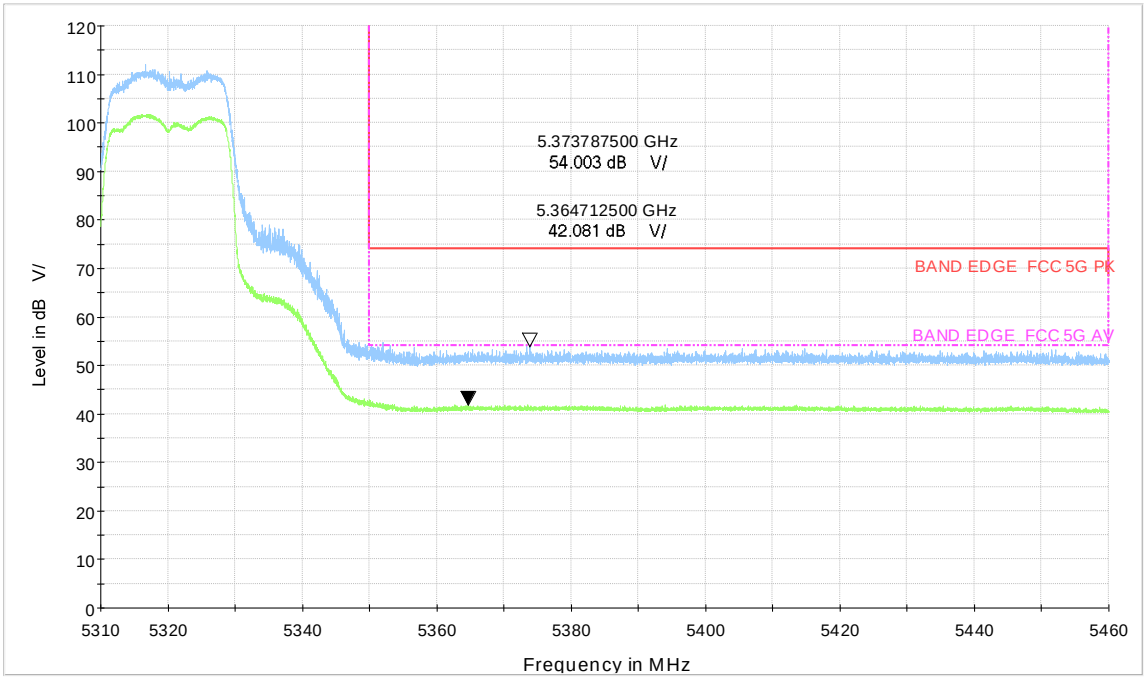
Wi-Fi 5GHz_n20 CH36



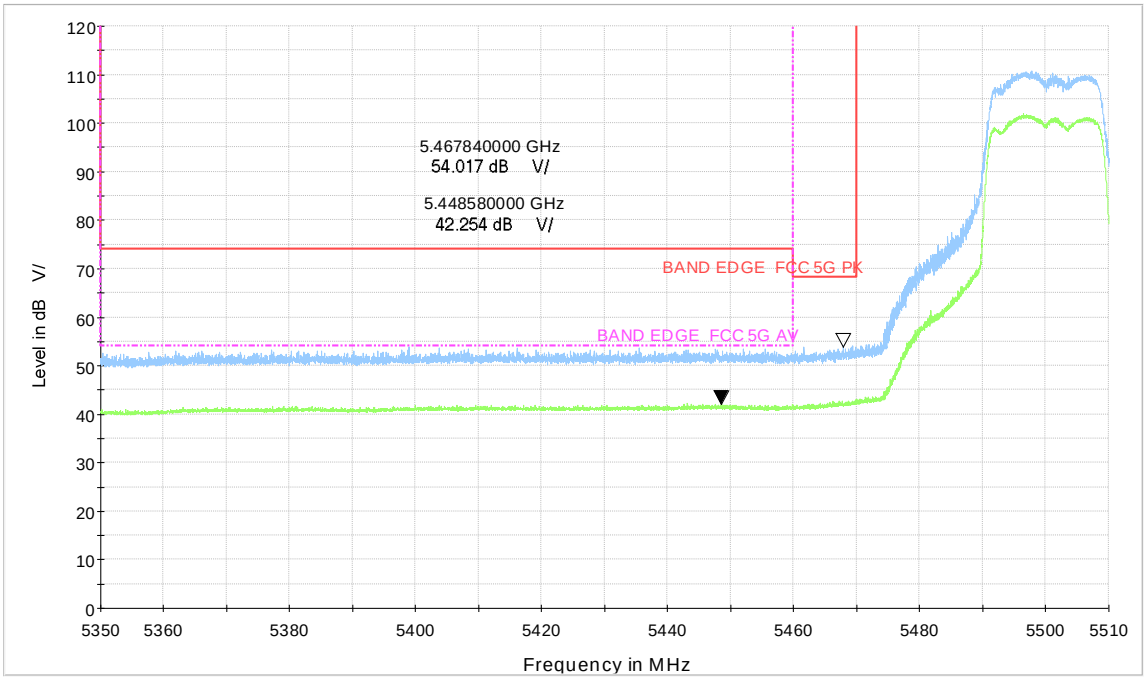
Wi-Fi 5GHz_n20 CH48



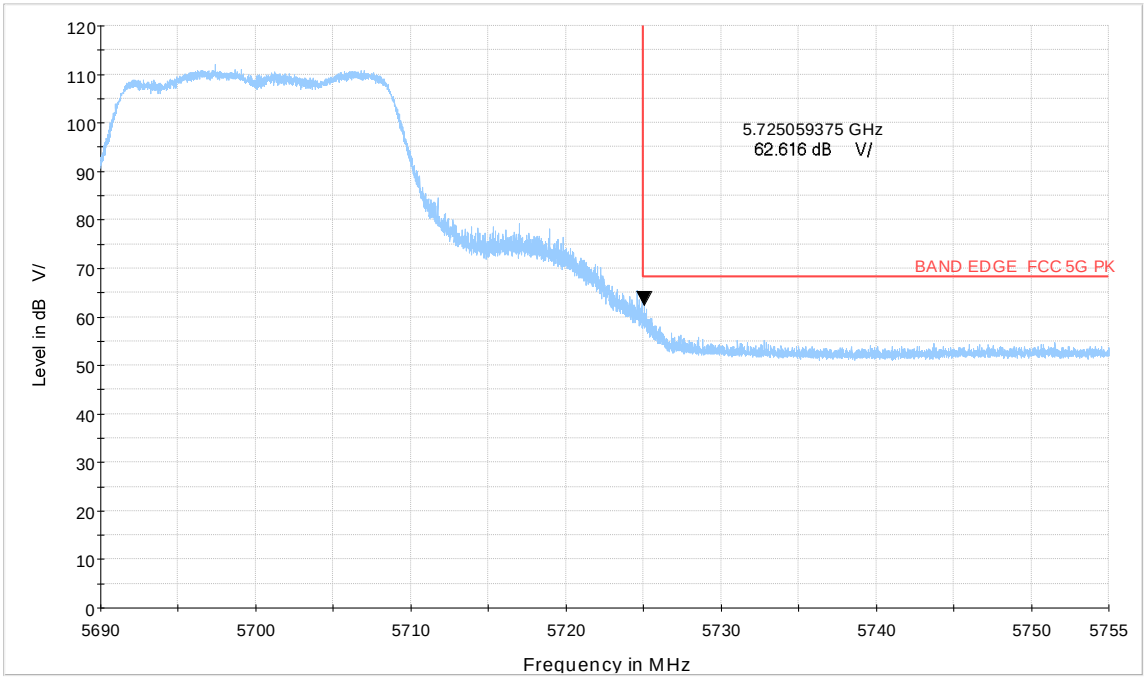
Wi-Fi 5GHz_n20 CH52



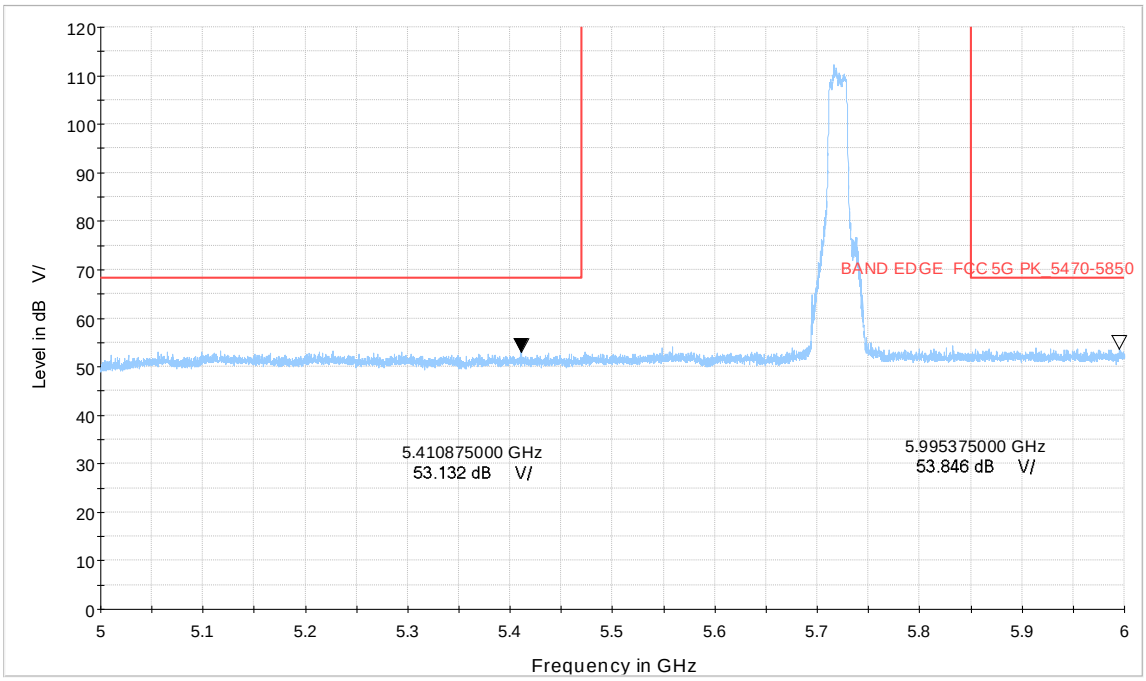
Wi-Fi 5GHz_n20 CH64



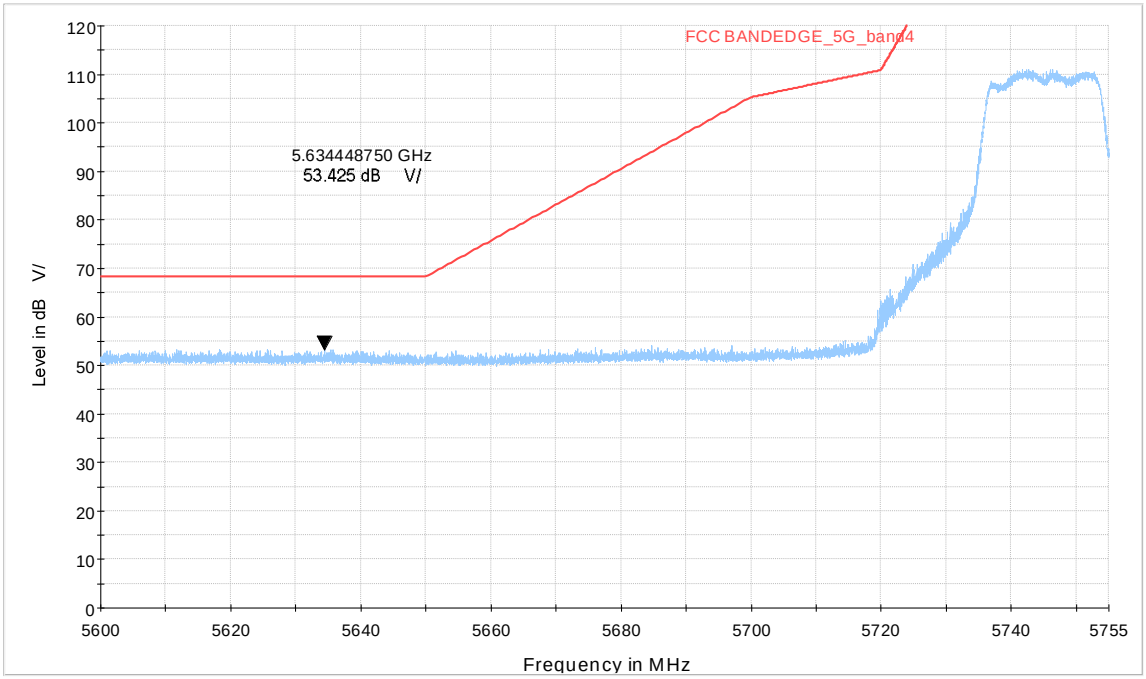
Wi-Fi 5GHz_n20 CH100



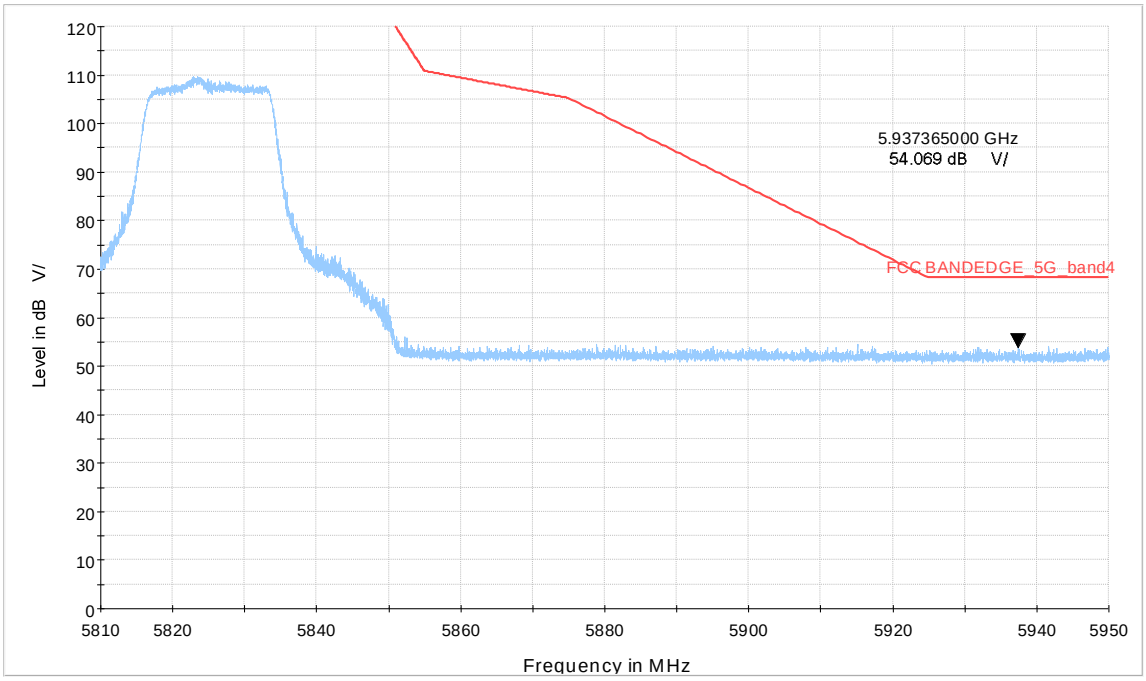
Wi-Fi 5GHz_n20 CH140



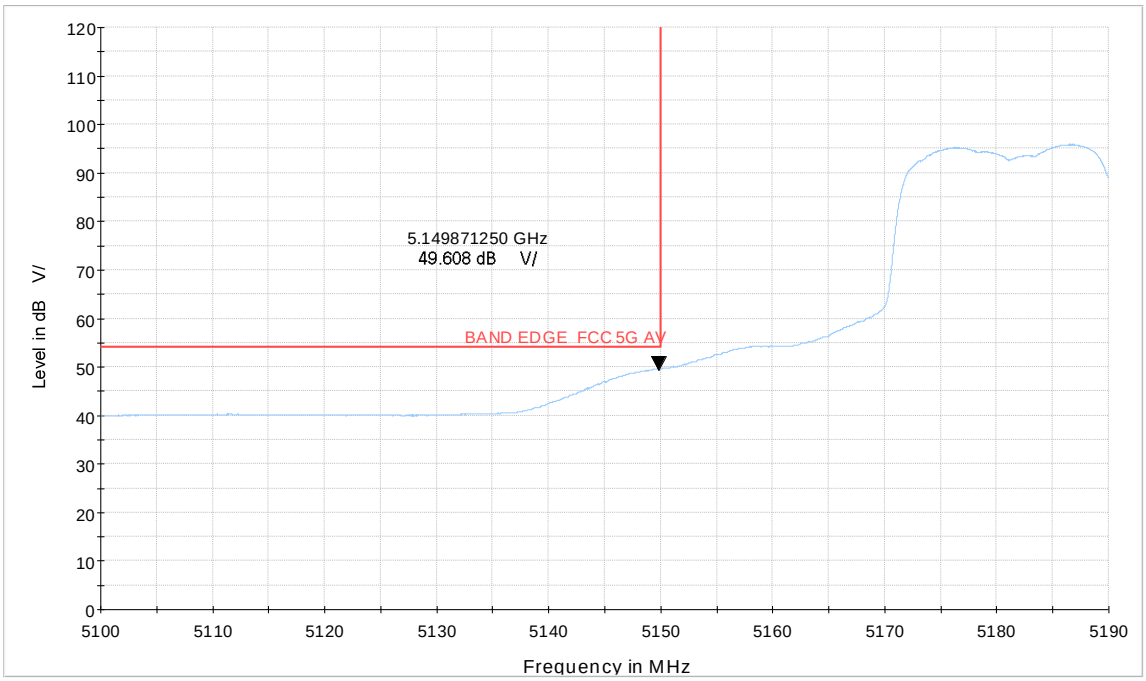
Wi-Fi 5GHz_n20 CH144

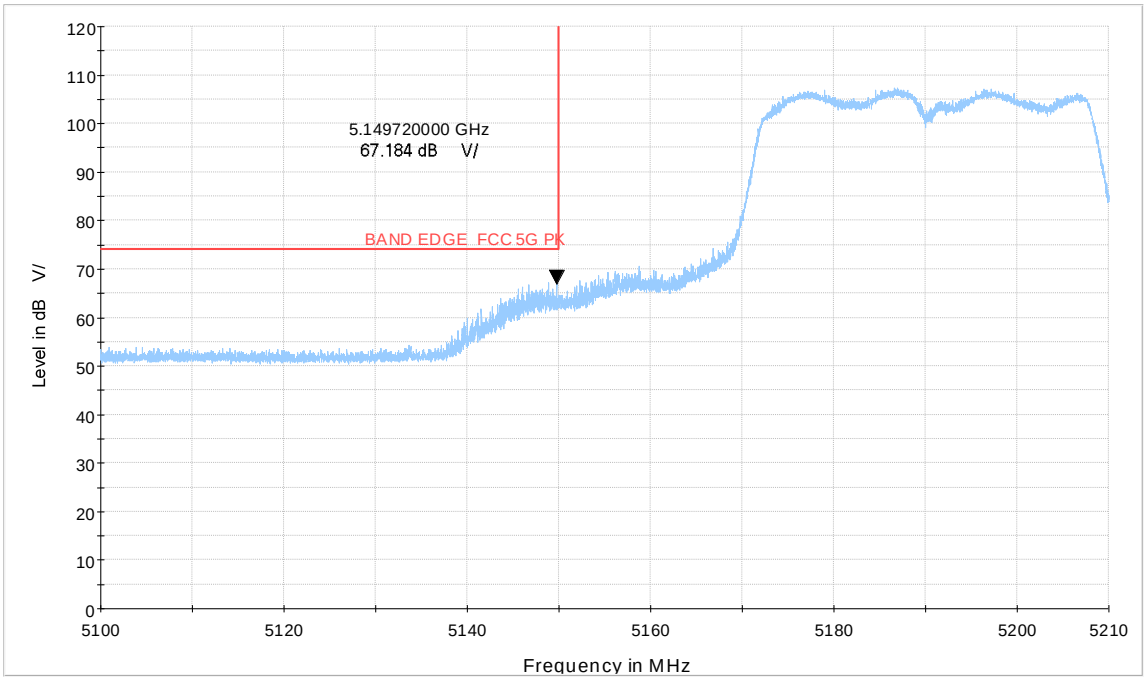


Wi-Fi 5GHz_n20 CH149

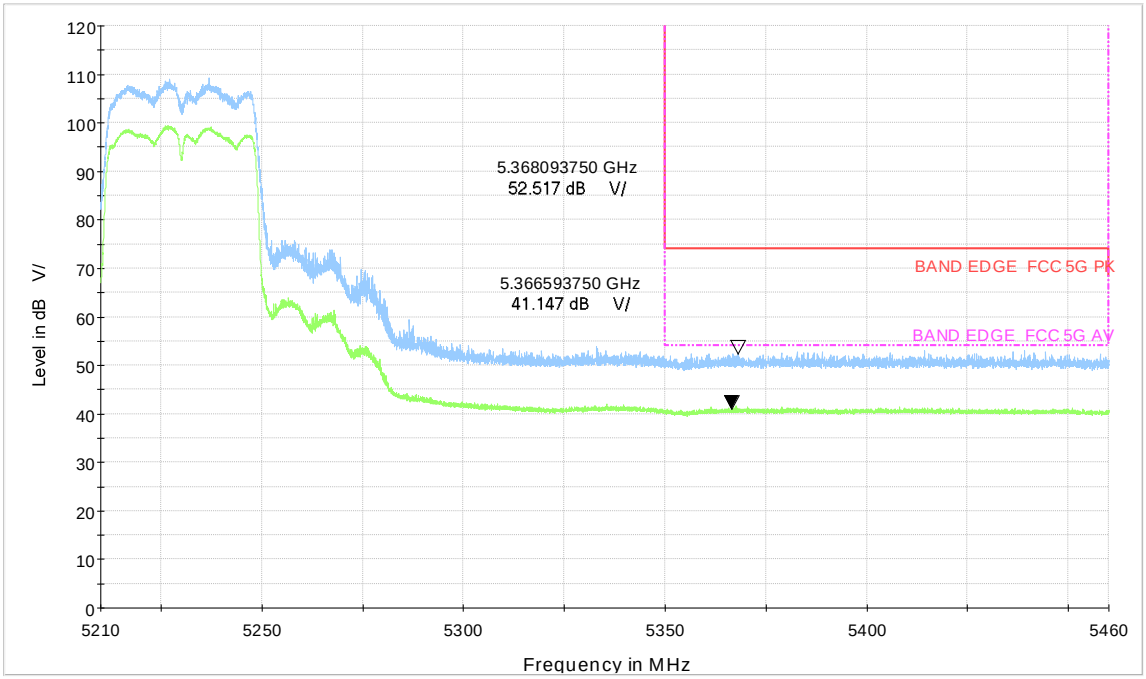


Wi-Fi 5GHz_n20 CH165

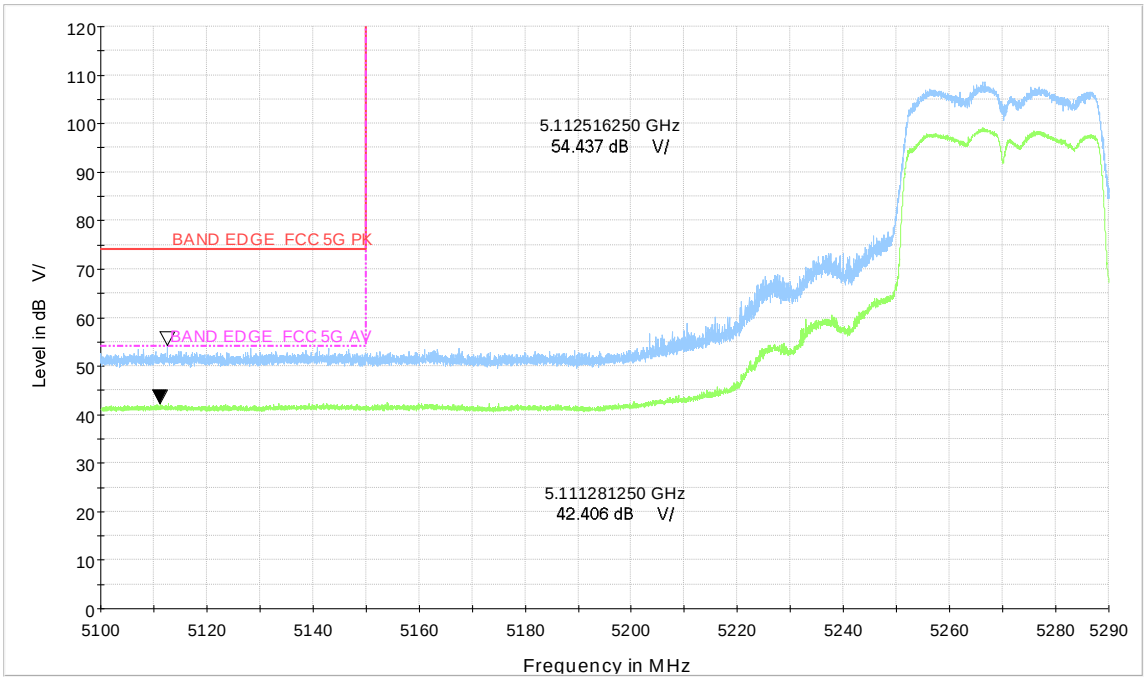




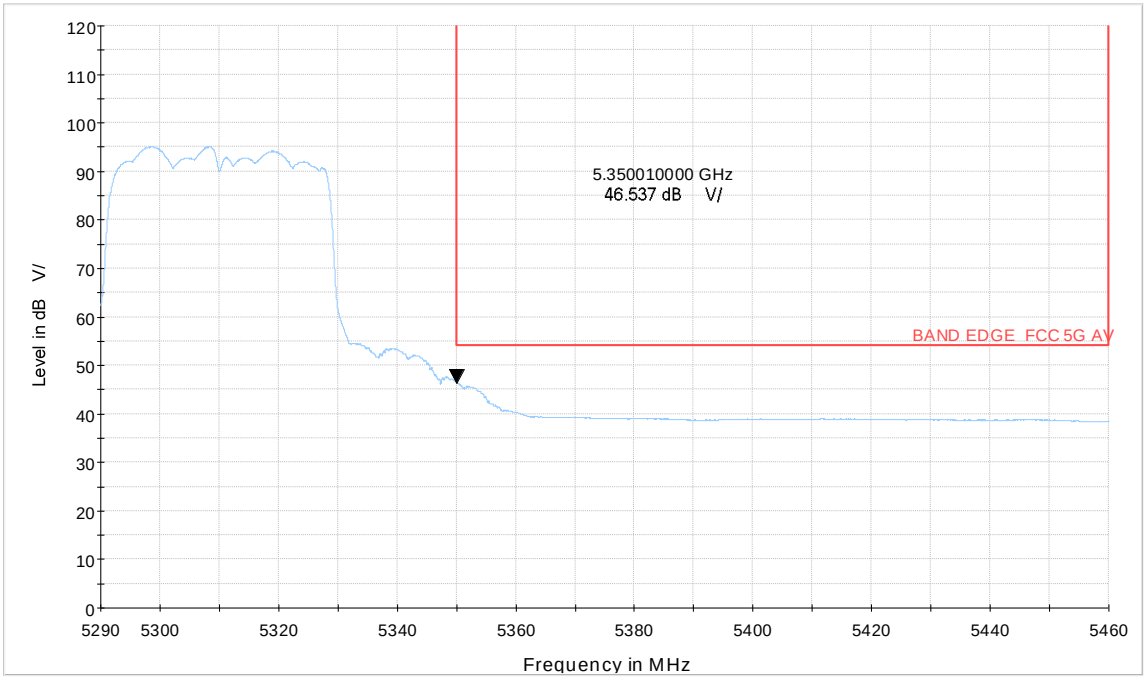
Wi-Fi 5GHz_n40 CH38

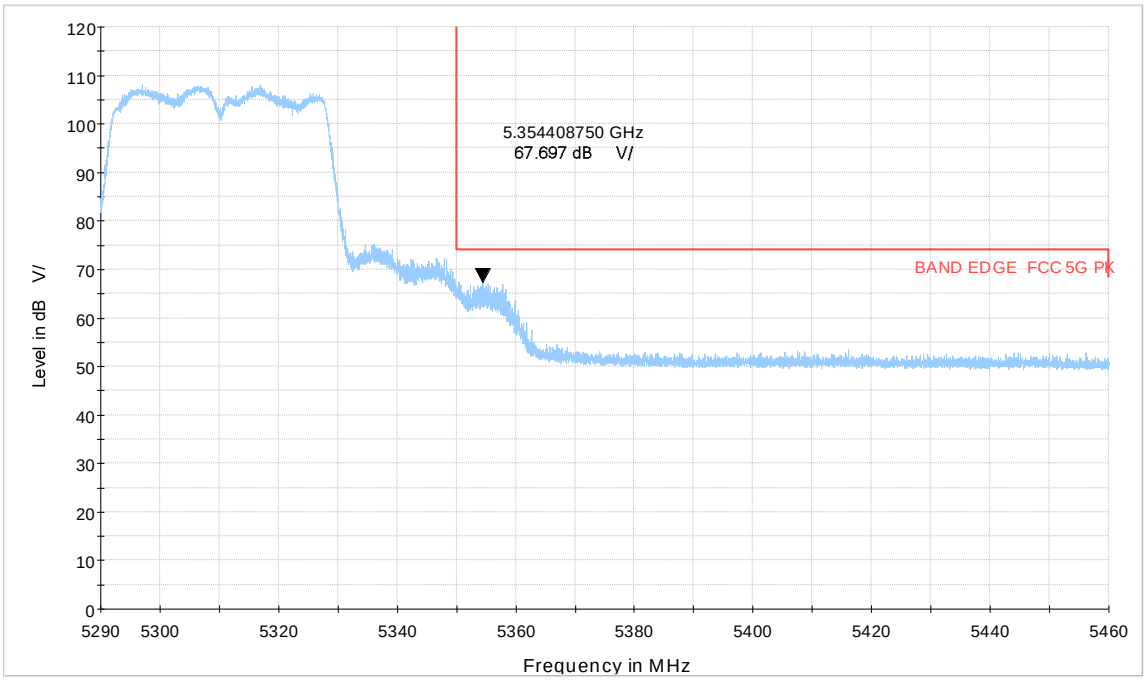


Wi-Fi 5GHz_n40 CH46

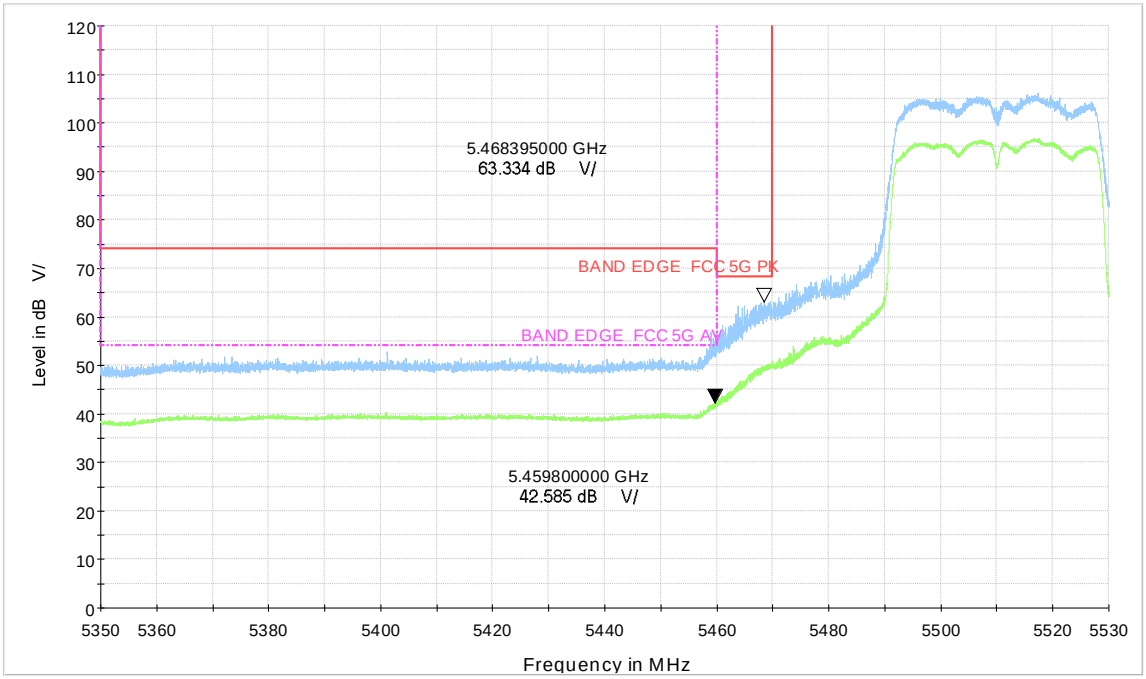


Wi-Fi 5GHz_n40 CH54

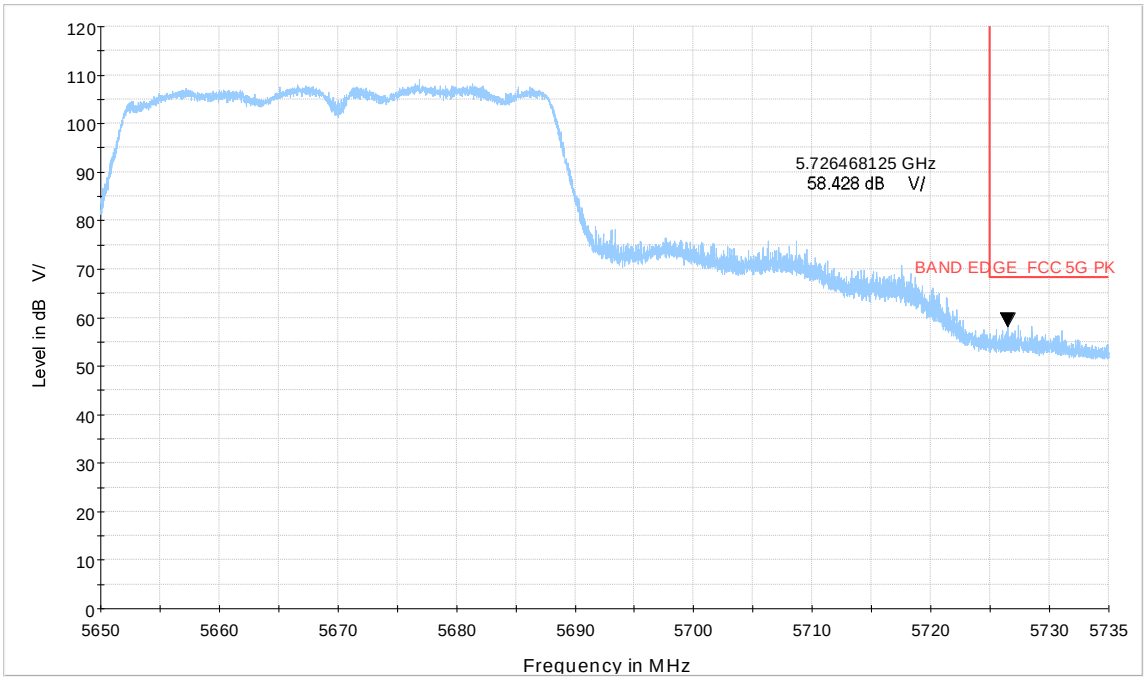




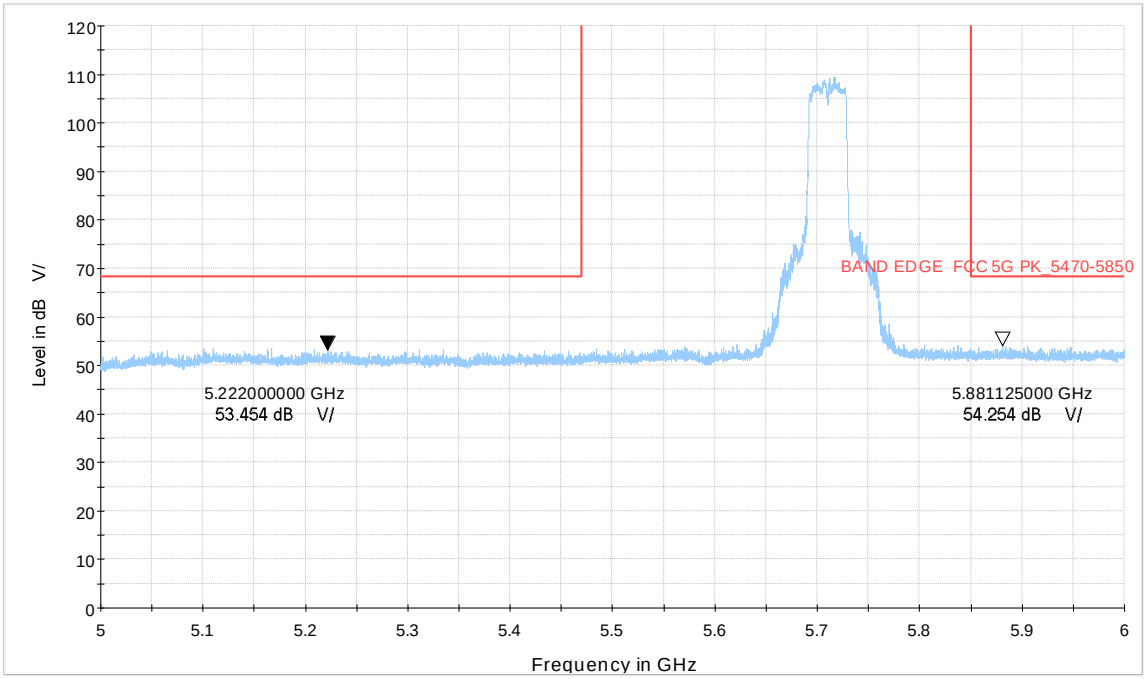
Wi-Fi 5GHz_n40 CH62



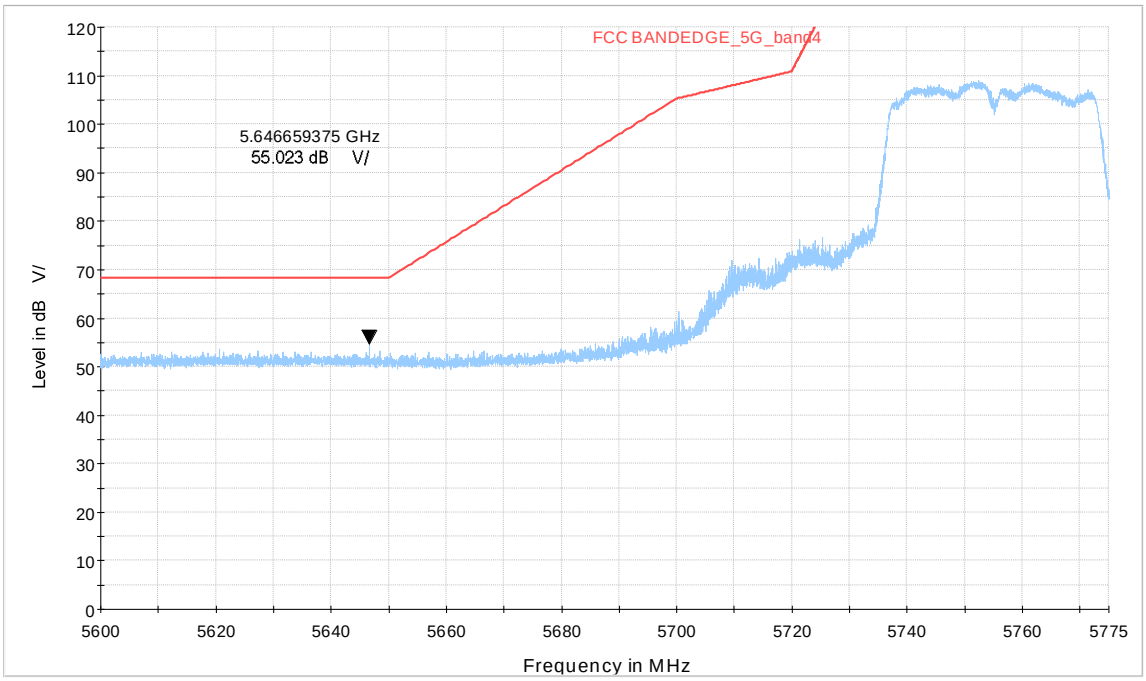
Wi-Fi 5GHz_n40 CH102



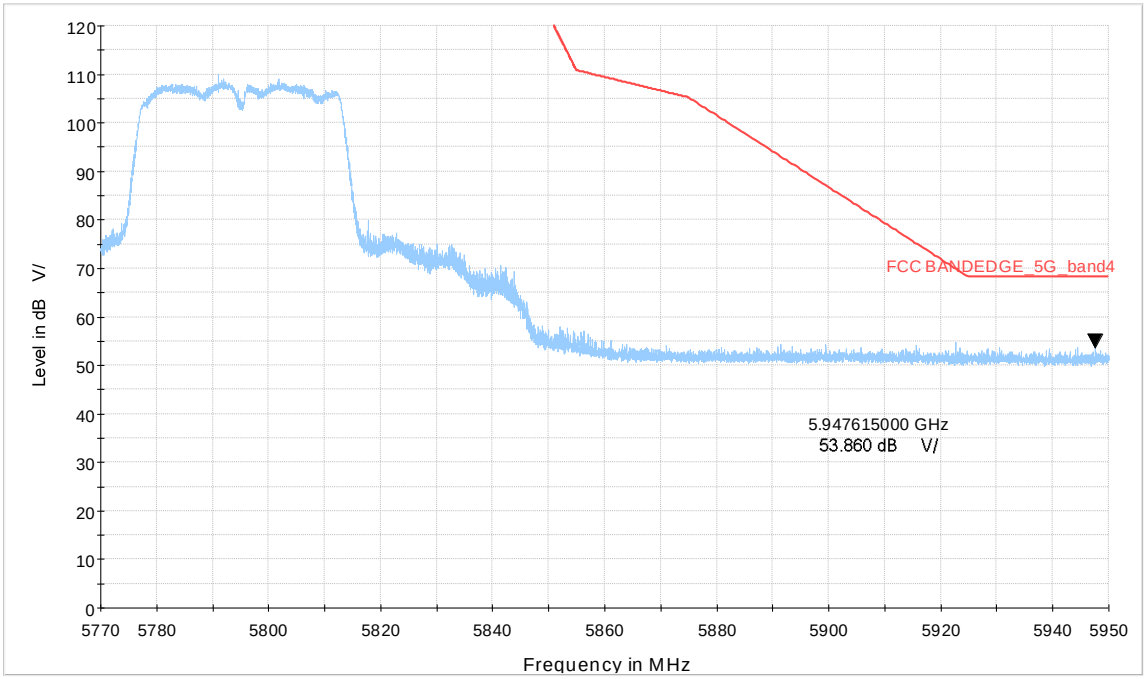
Wi-Fi 5GHz_n40 CH134



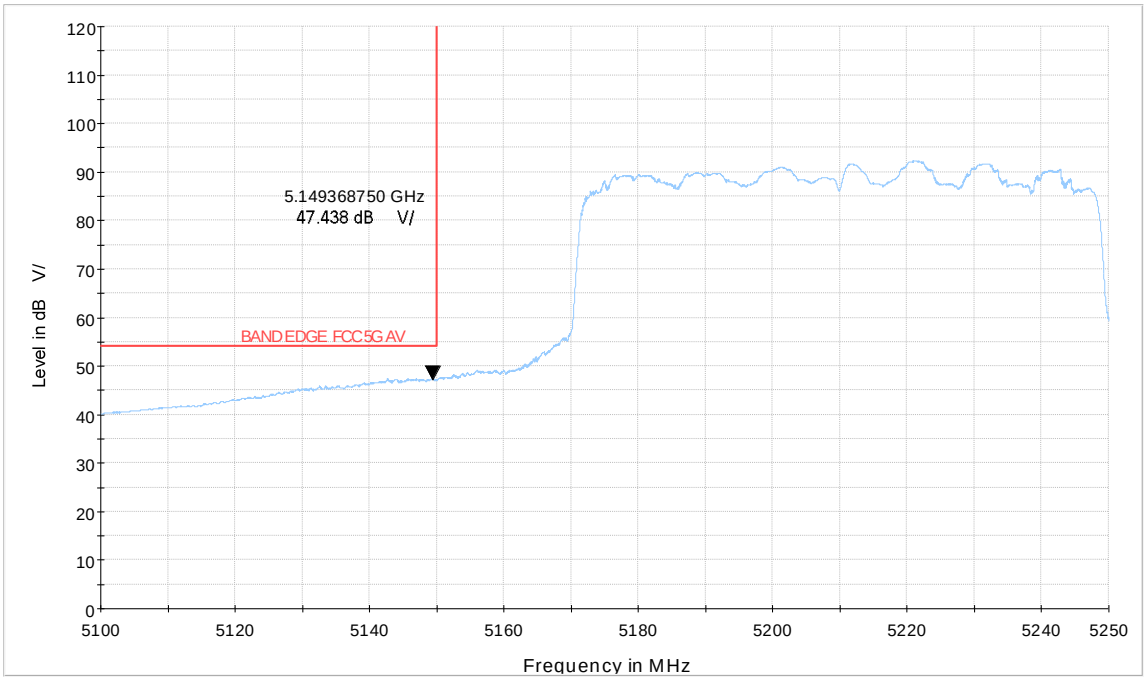
Wi-Fi 5GHz_n40 CH142

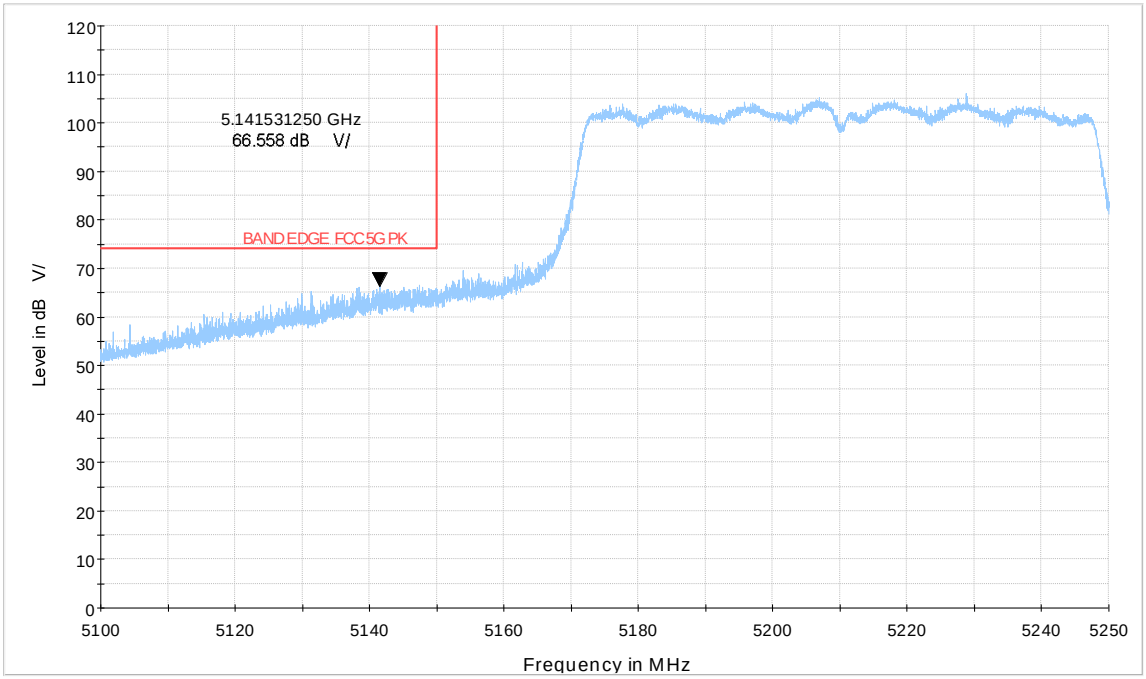


Wi-Fi 5GHz_n40 CH151

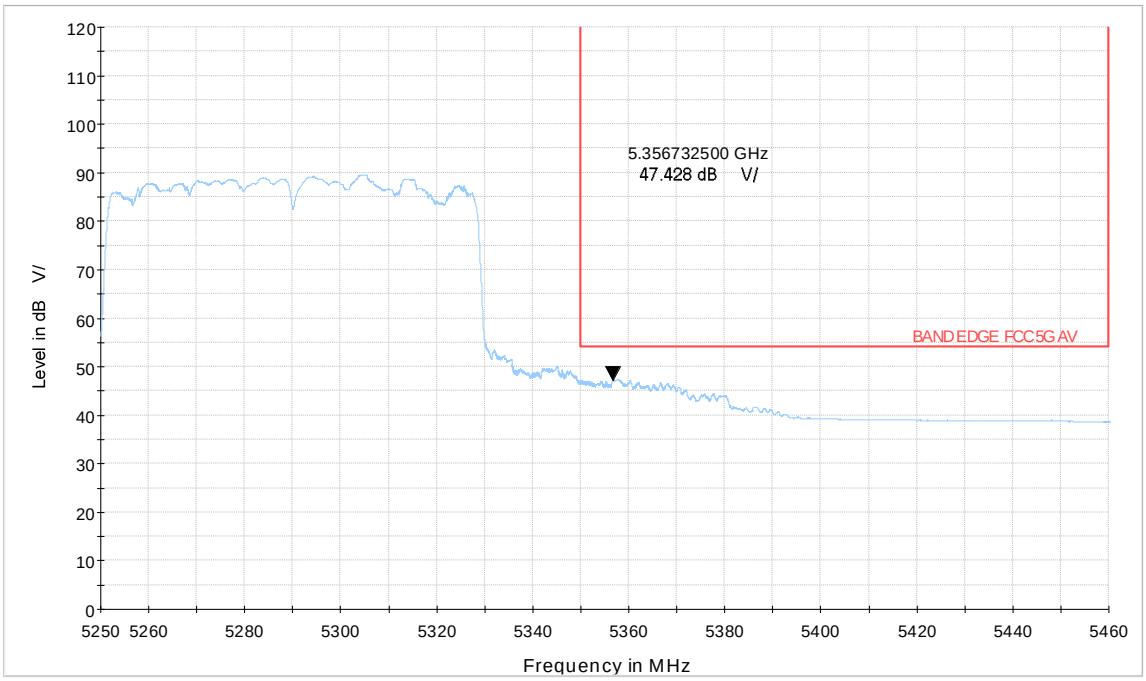


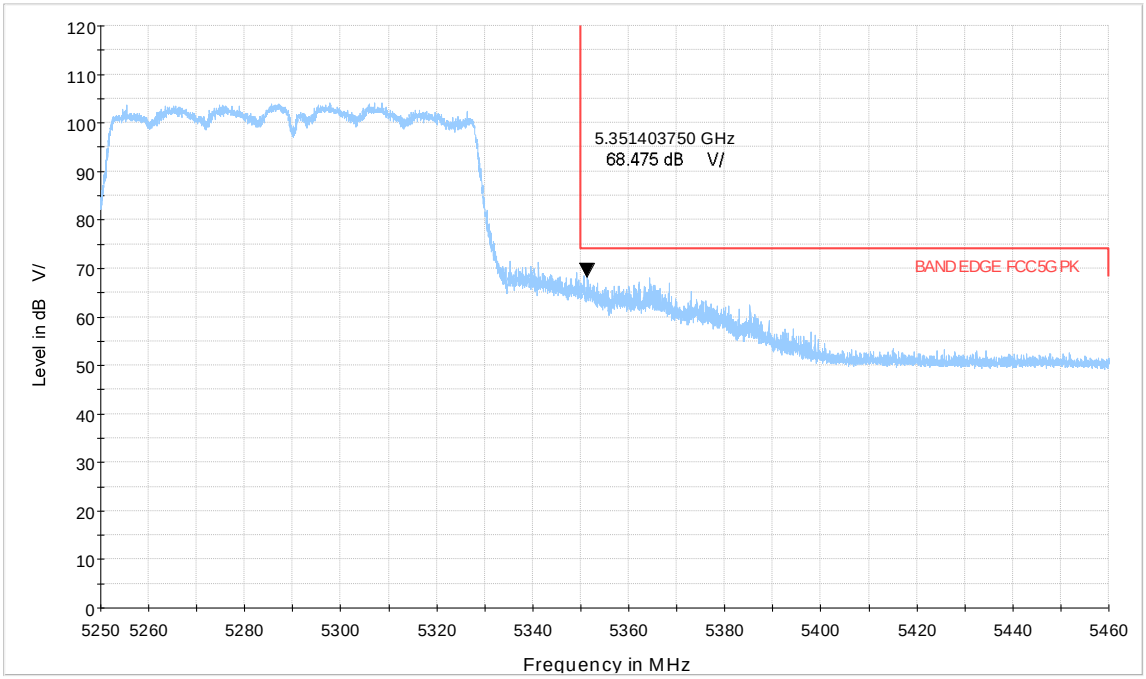
Wi-Fi 5GHz_n40 CH159



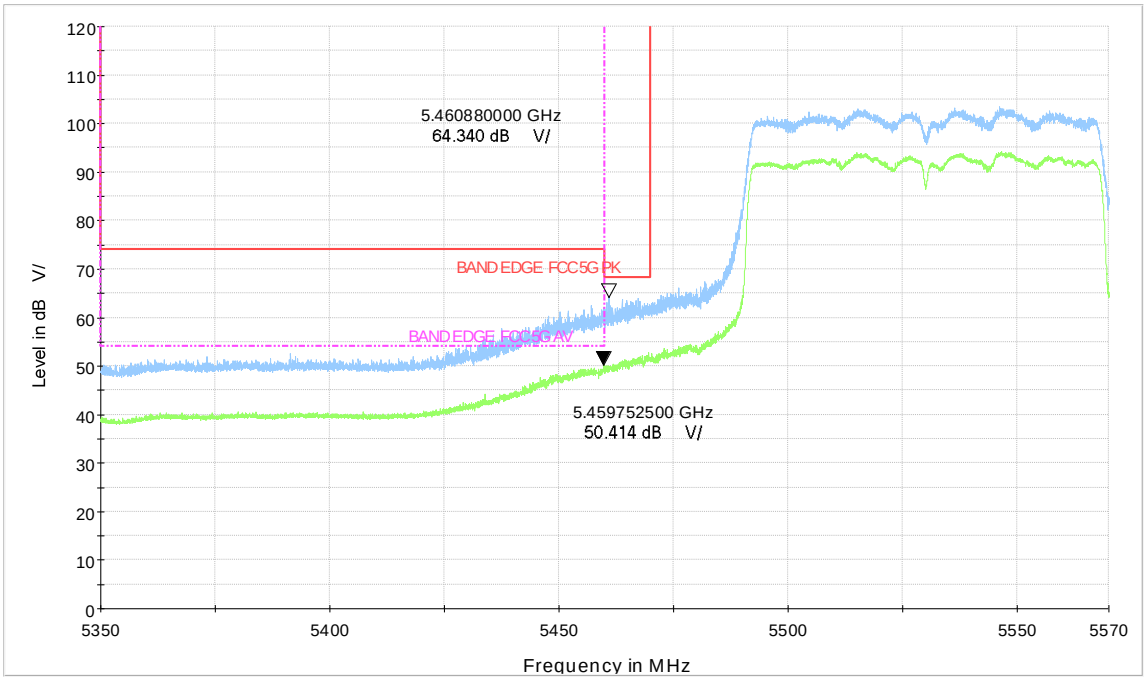


Wi-Fi 5GHz_ac80 CH42

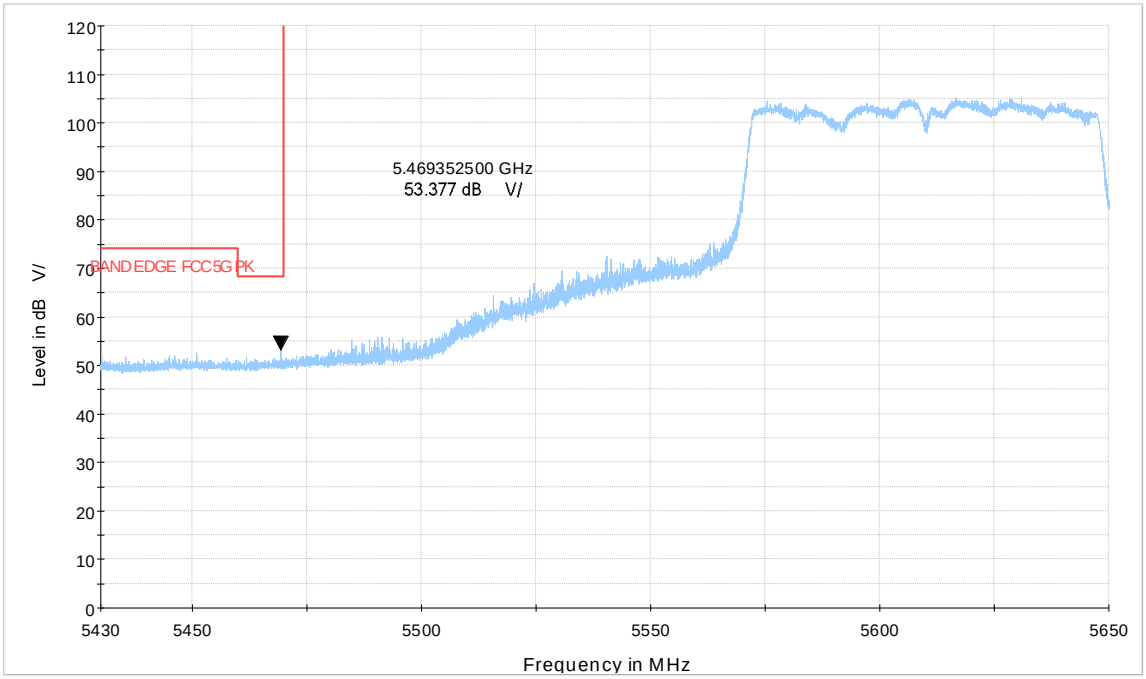




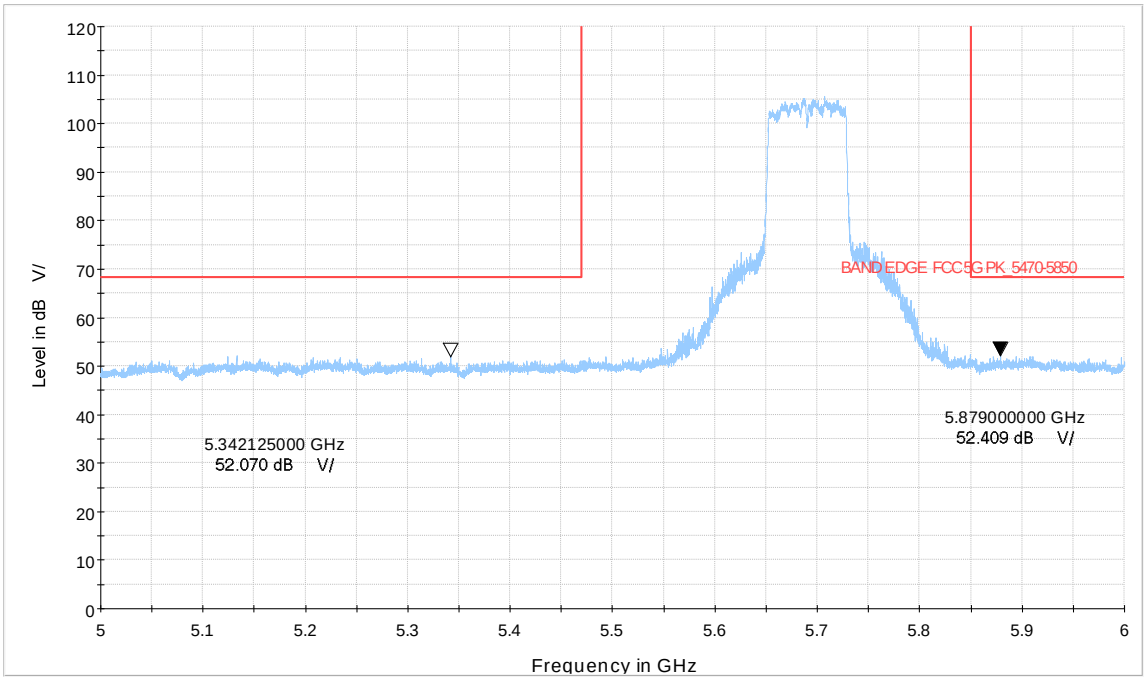
Wi-Fi 5GHz_ac80 CH58



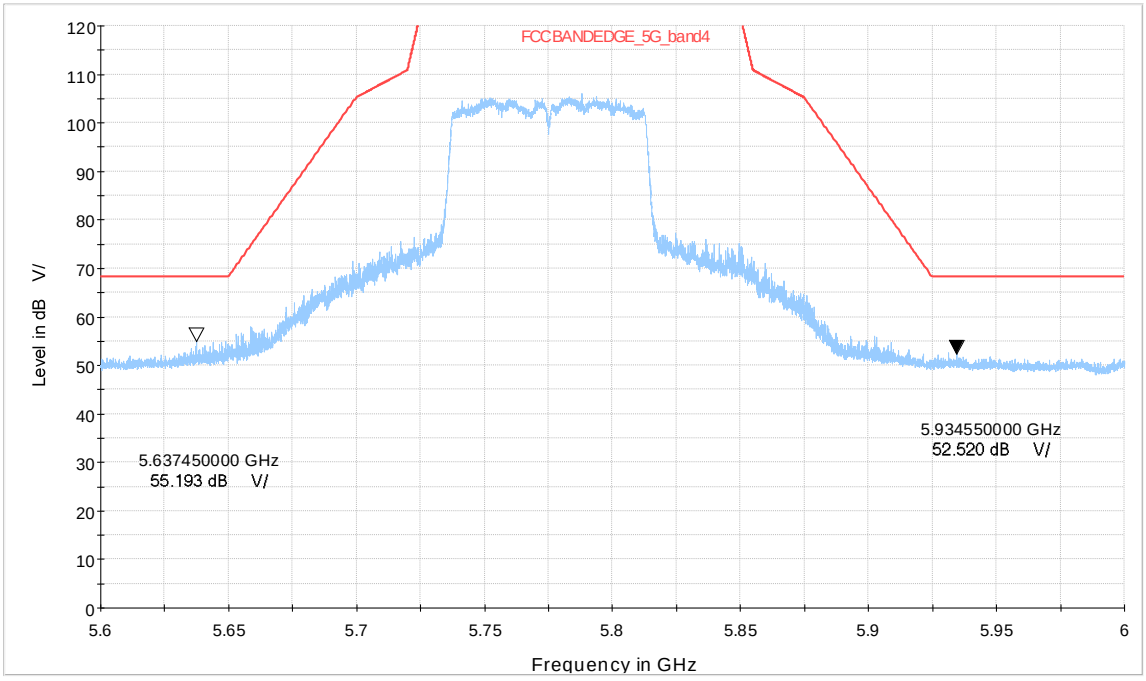
Wi-Fi 5GHz_ac80 CH106



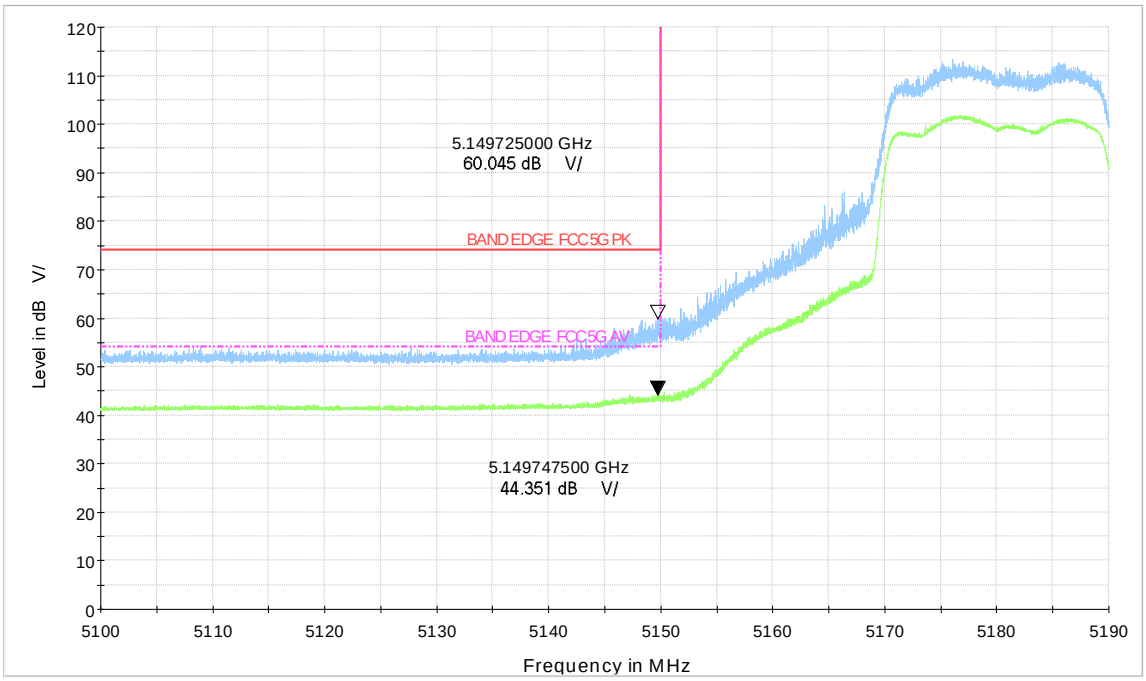
Wi-Fi 5GHz_ac80 CH122



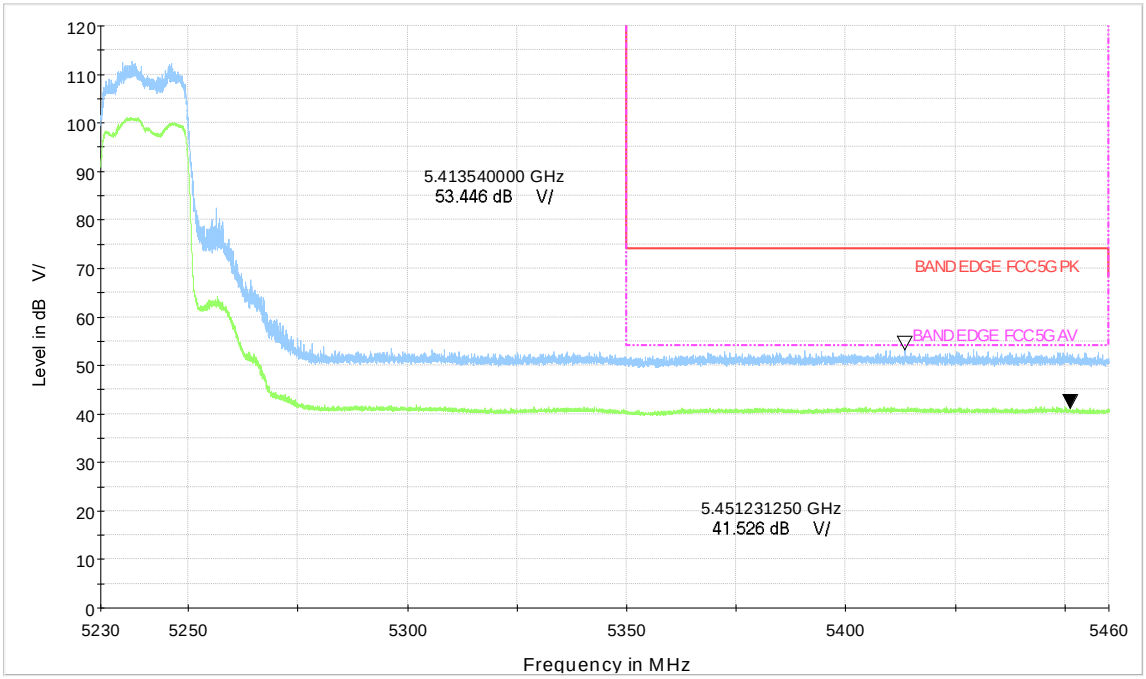
Wi-Fi 5GHz_ac80 CH138



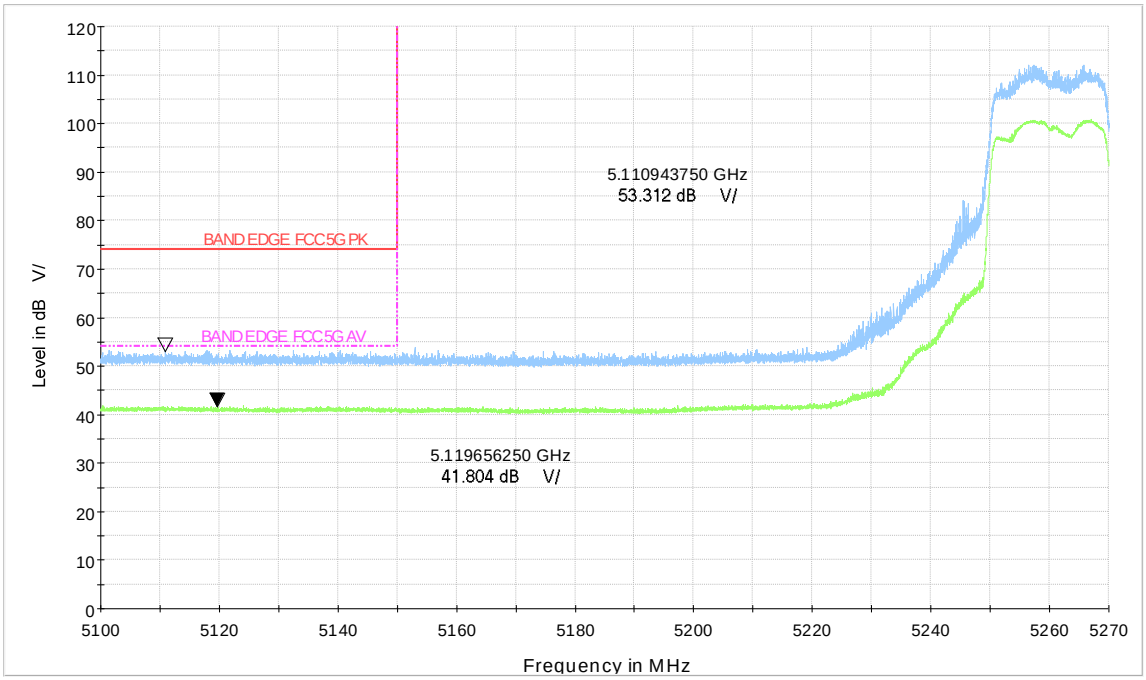
Wi-Fi 5GHz_ac80 CH155



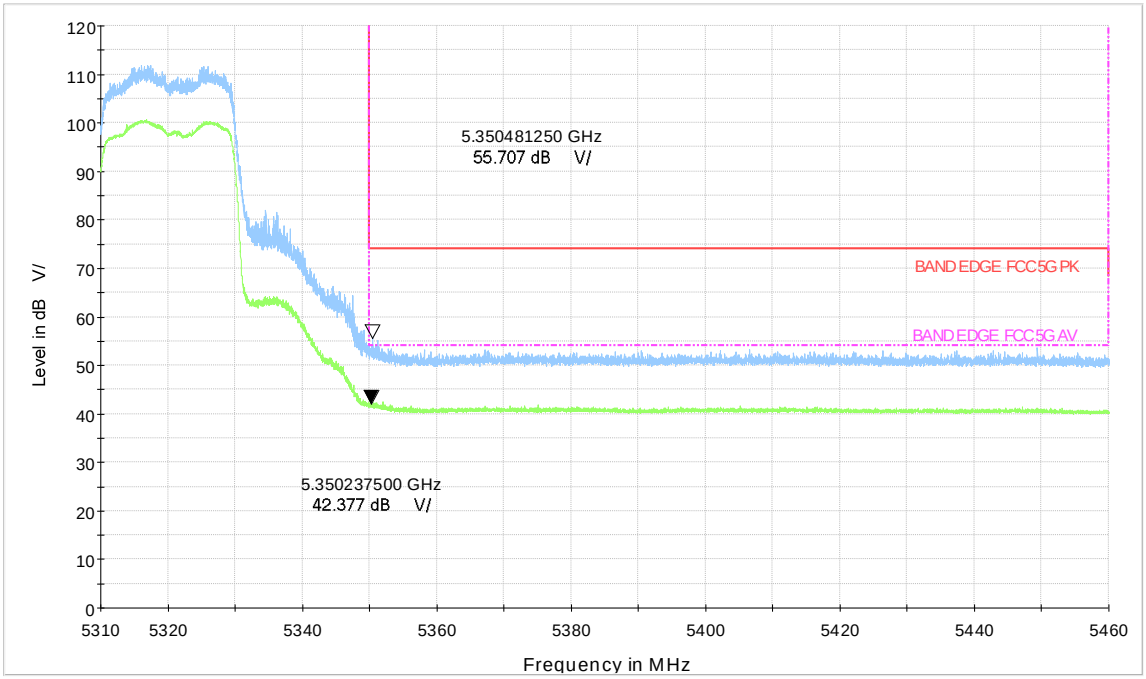
Wi-Fi 5GHz_ax20 CH36



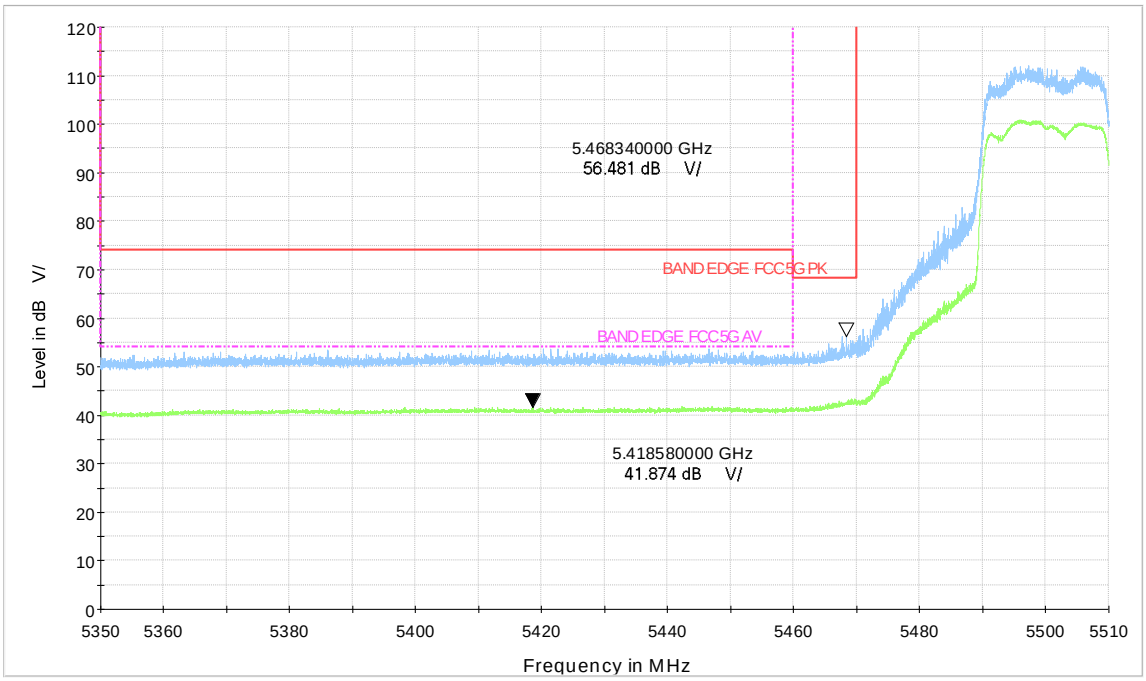
Wi-Fi 5GHz_ax20 CH48



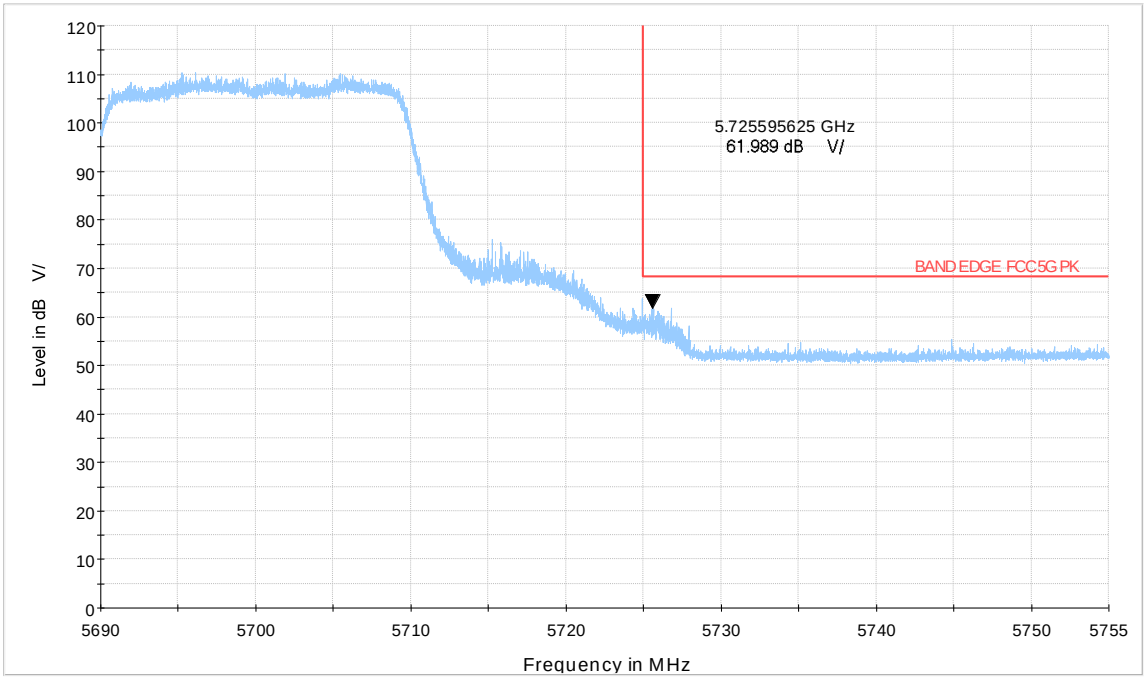
Wi-Fi 5GHz_ax20 CH52



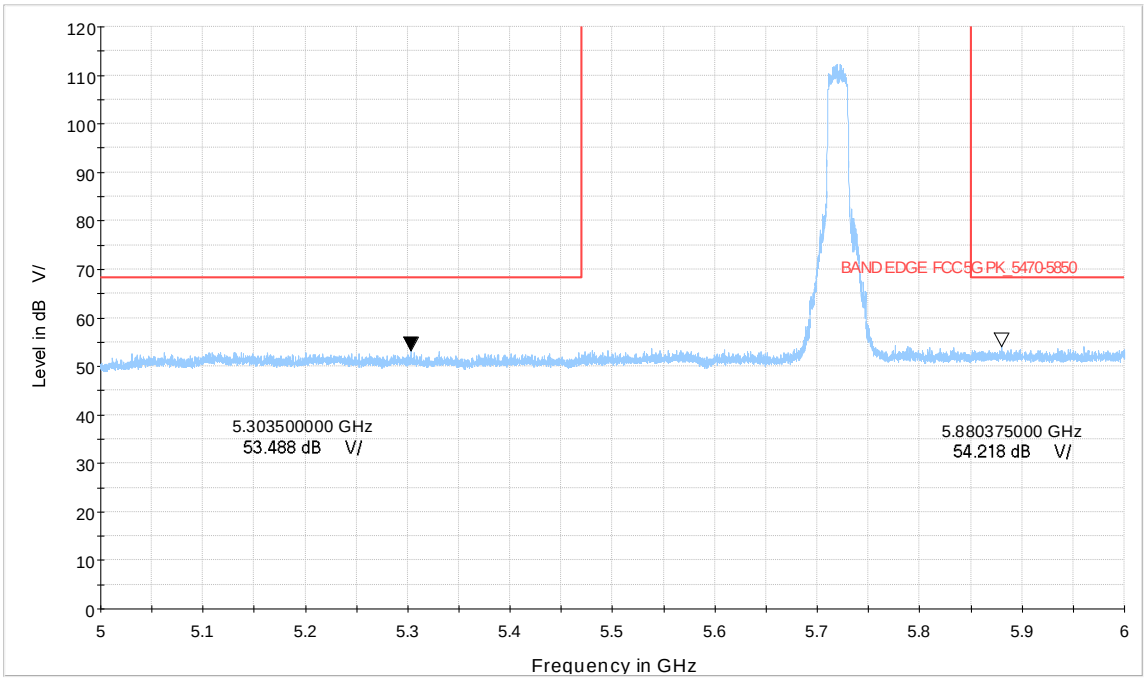
Wi-Fi 5GHz_ax20 CH64



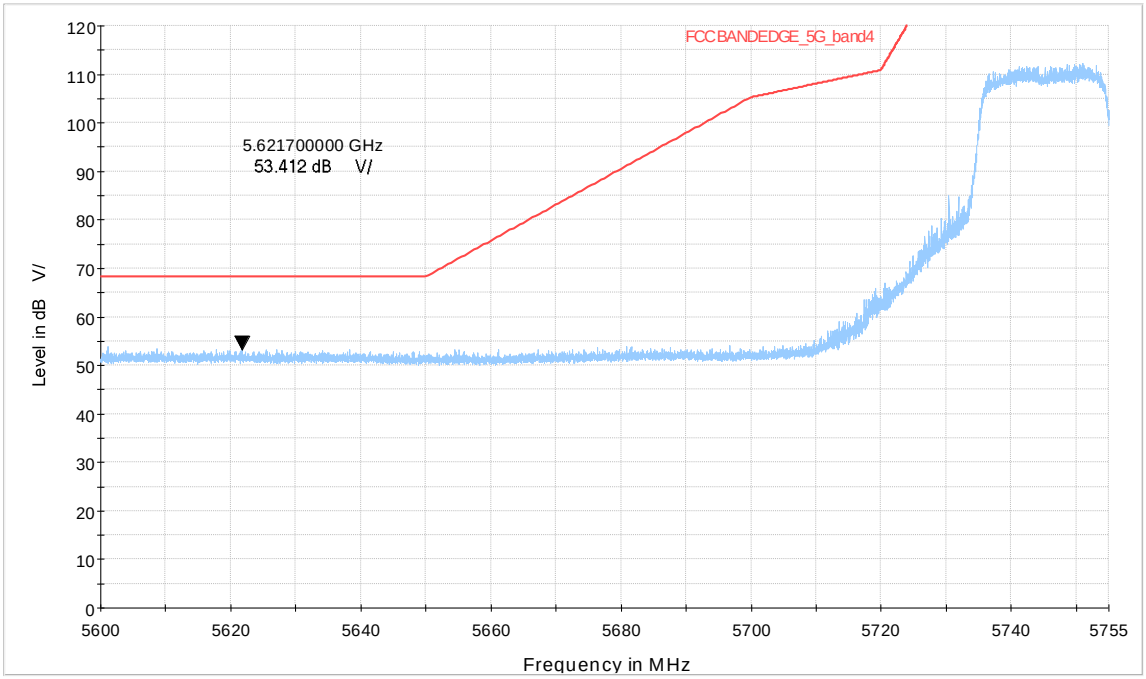
Wi-Fi 5GHz_ax20 CH100



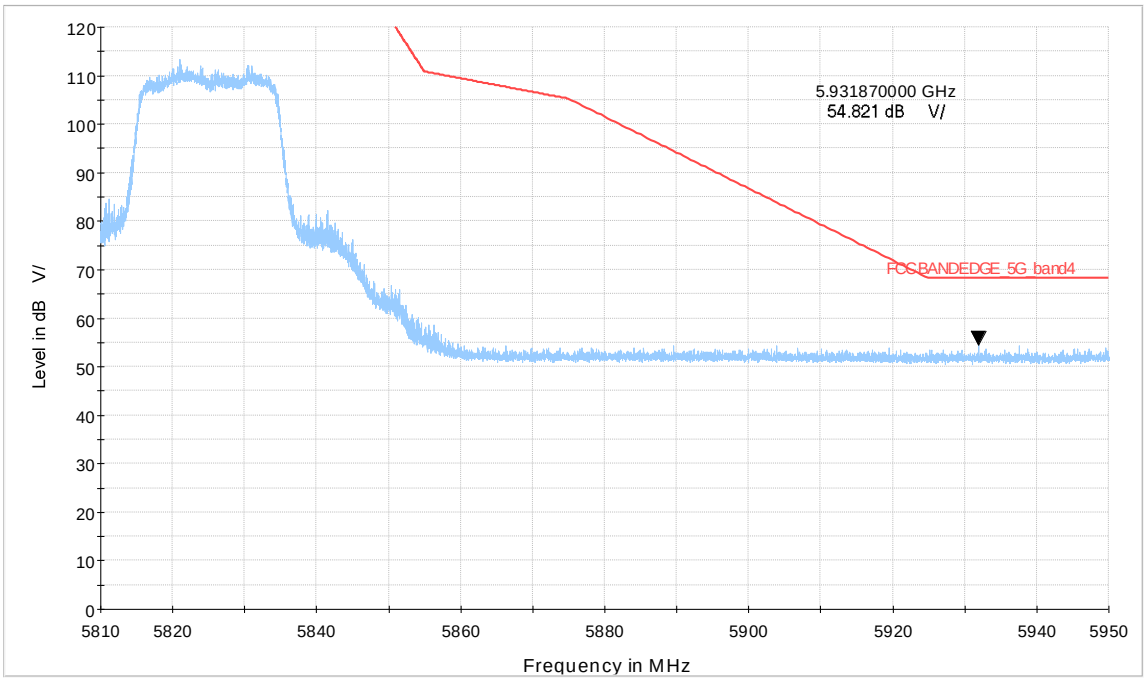
Wi-Fi 5GHz_ax20 CH140



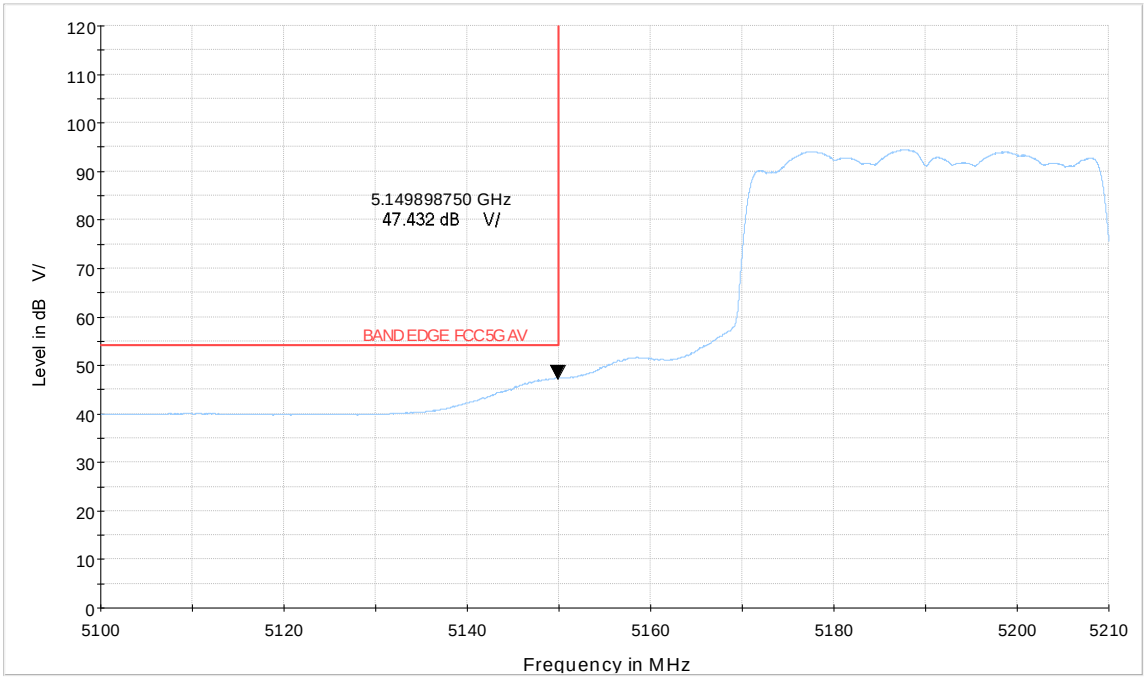
Wi-Fi 5GHz_ax20 CH144

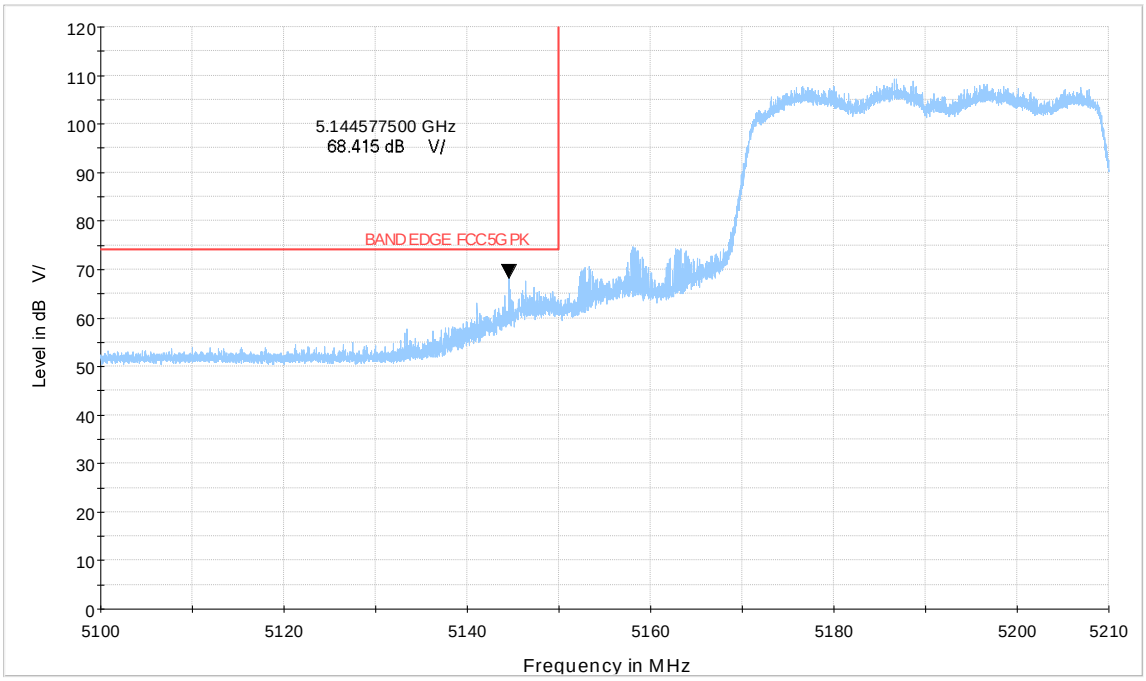


Wi-Fi 5GHz_ax20 CH149

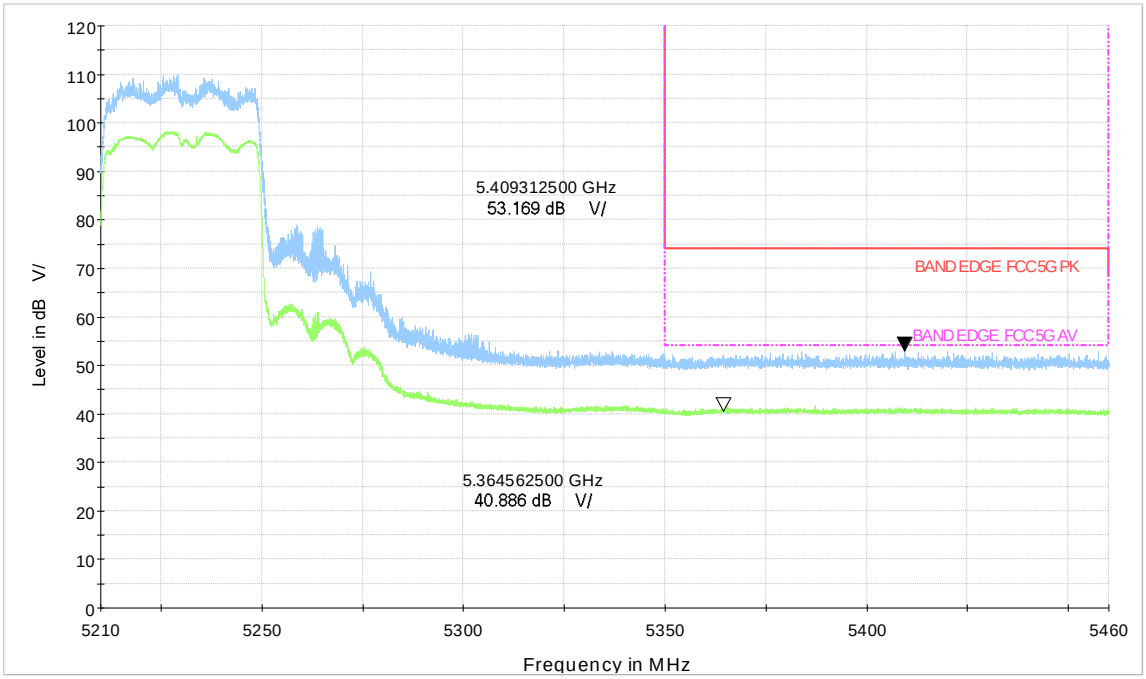


Wi-Fi 5GHz_ax20 CH165

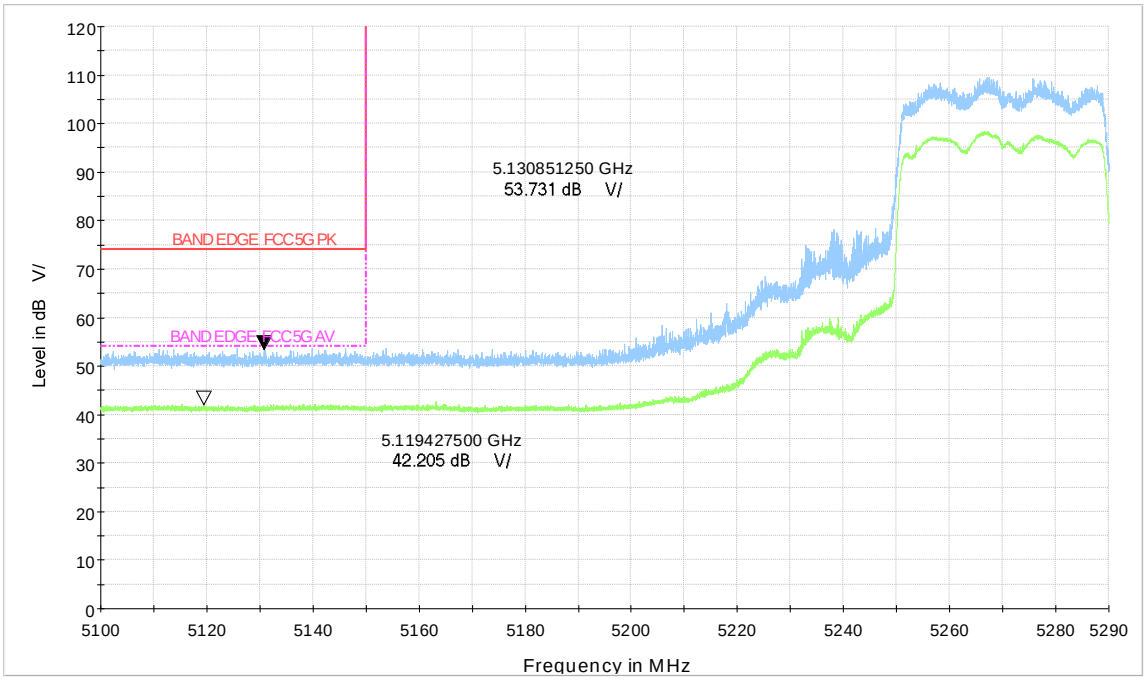




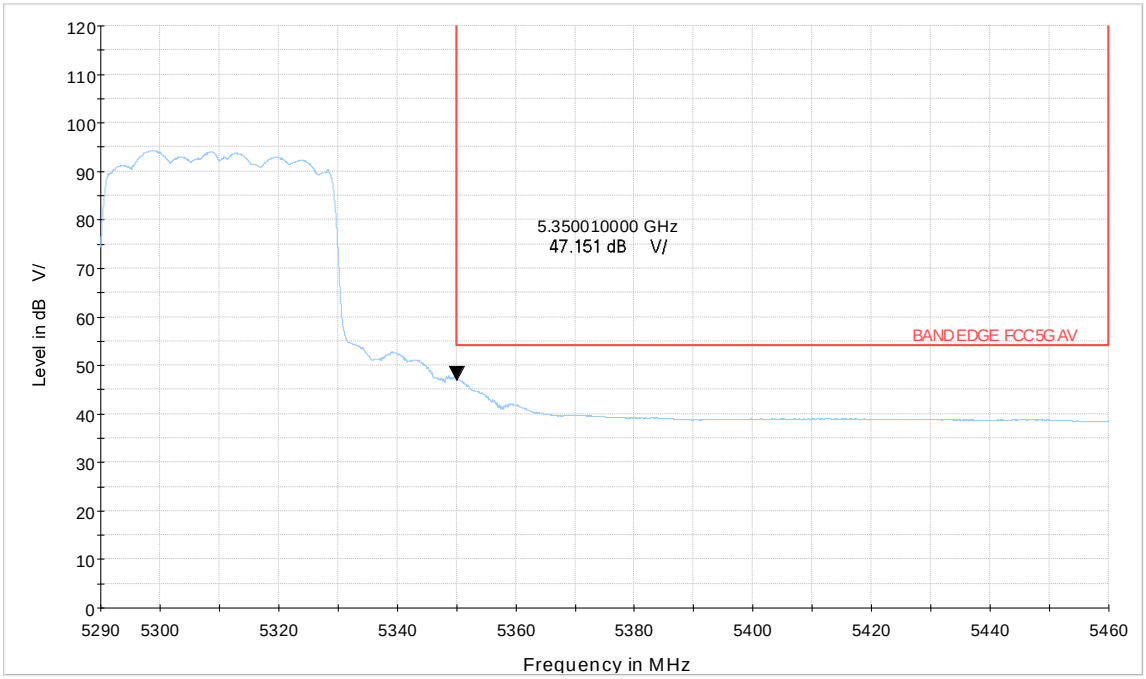
Wi-Fi 5GHz_ax40 CH38

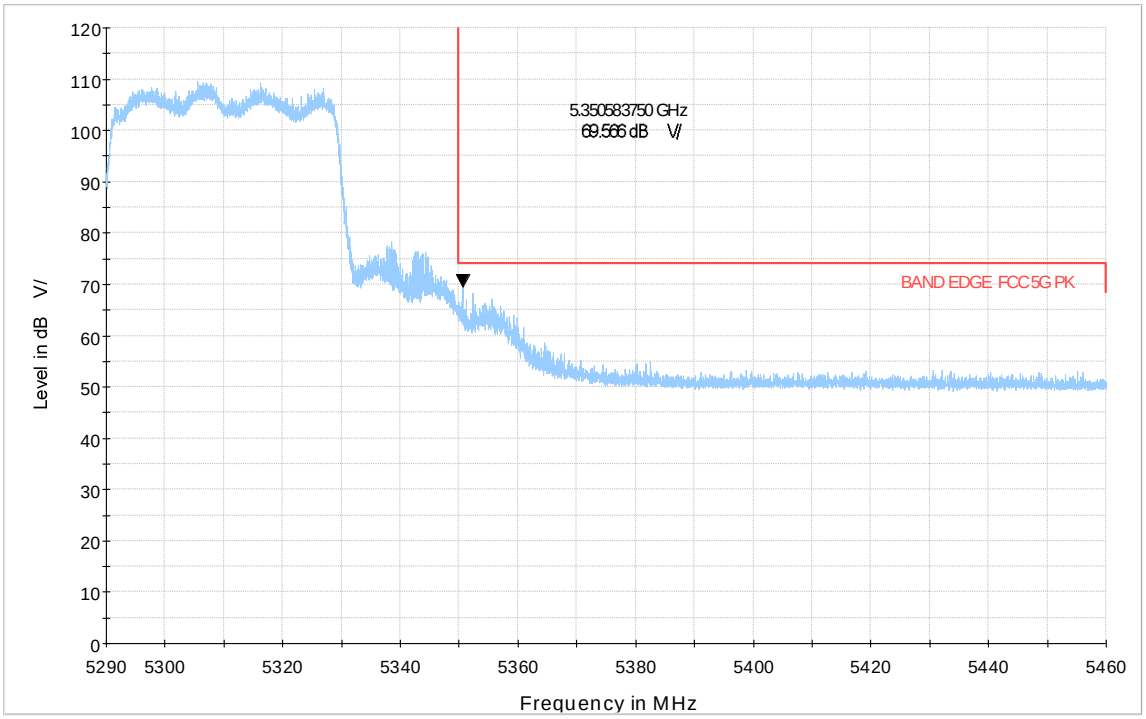


Wi-Fi 5GHz_ax40 CH46

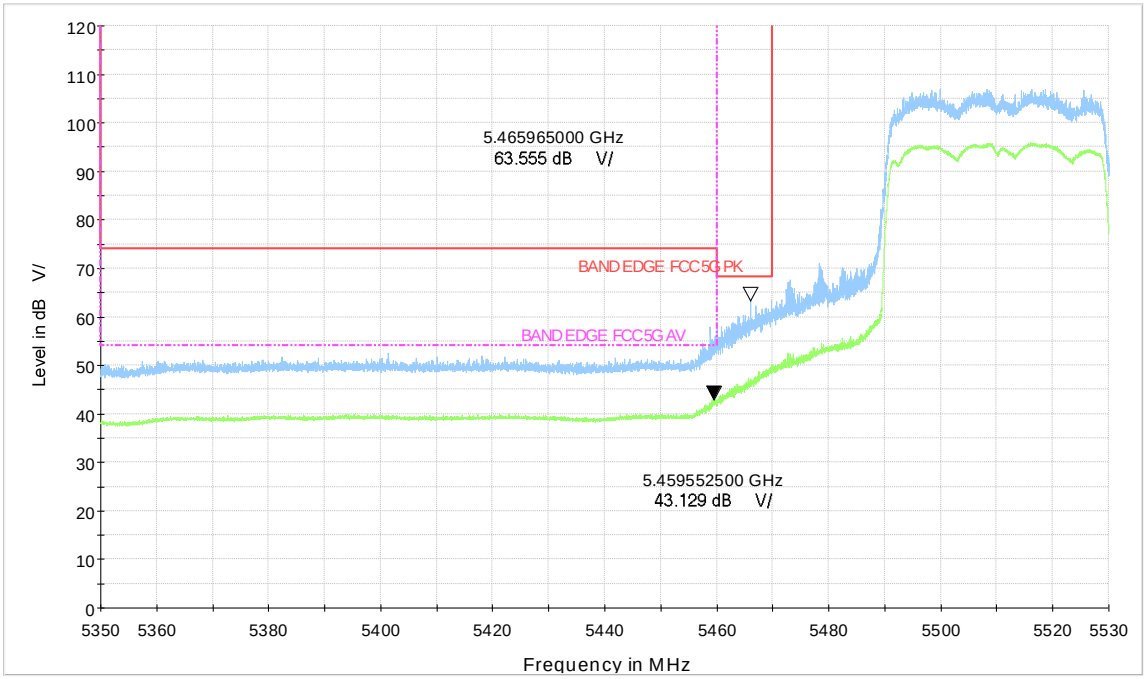


Wi-Fi 5GHz_ax40 CH54

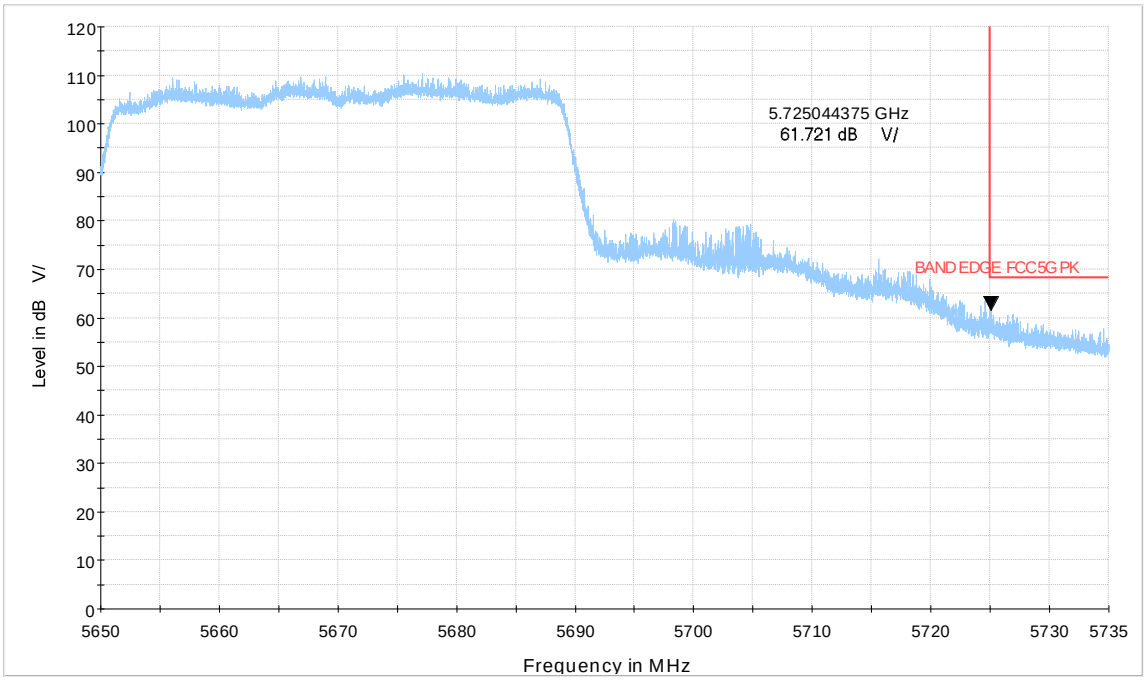




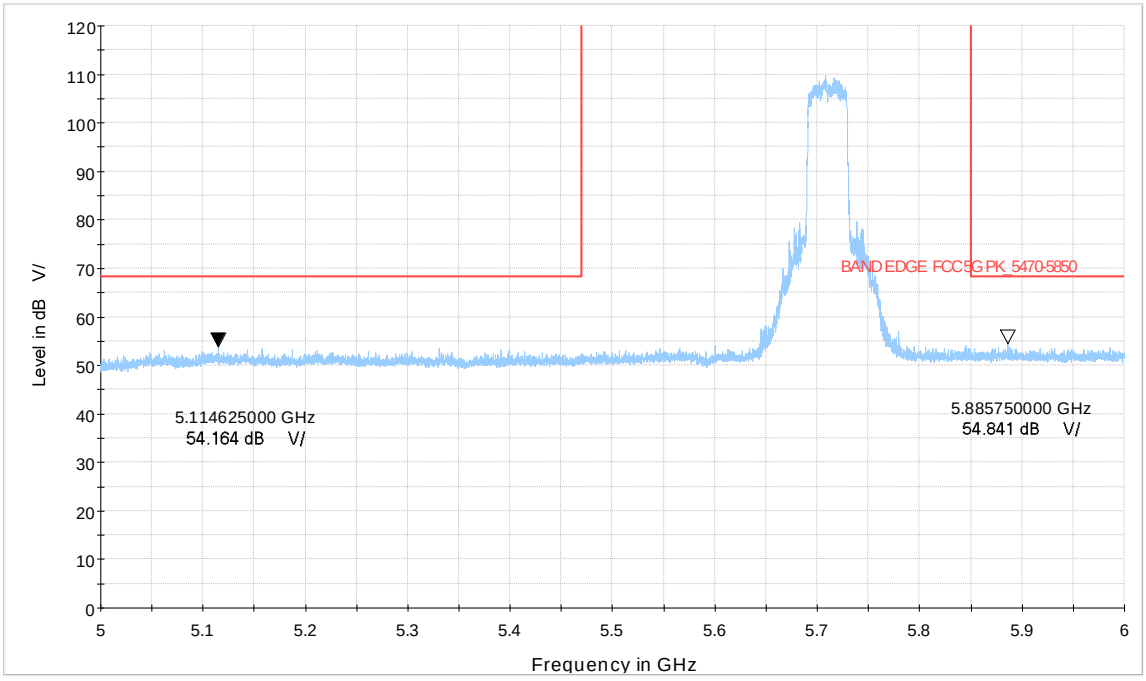
Wi-Fi 5GHz_ax40 CH62



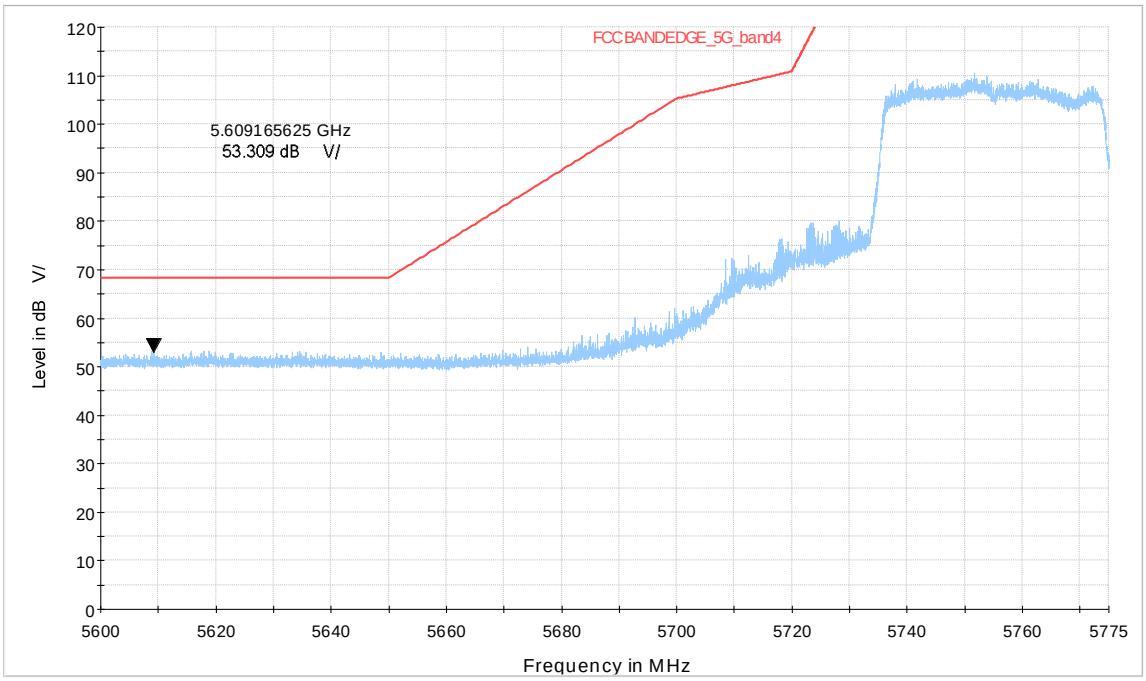
Wi-Fi 5GHz_ax40 CH102



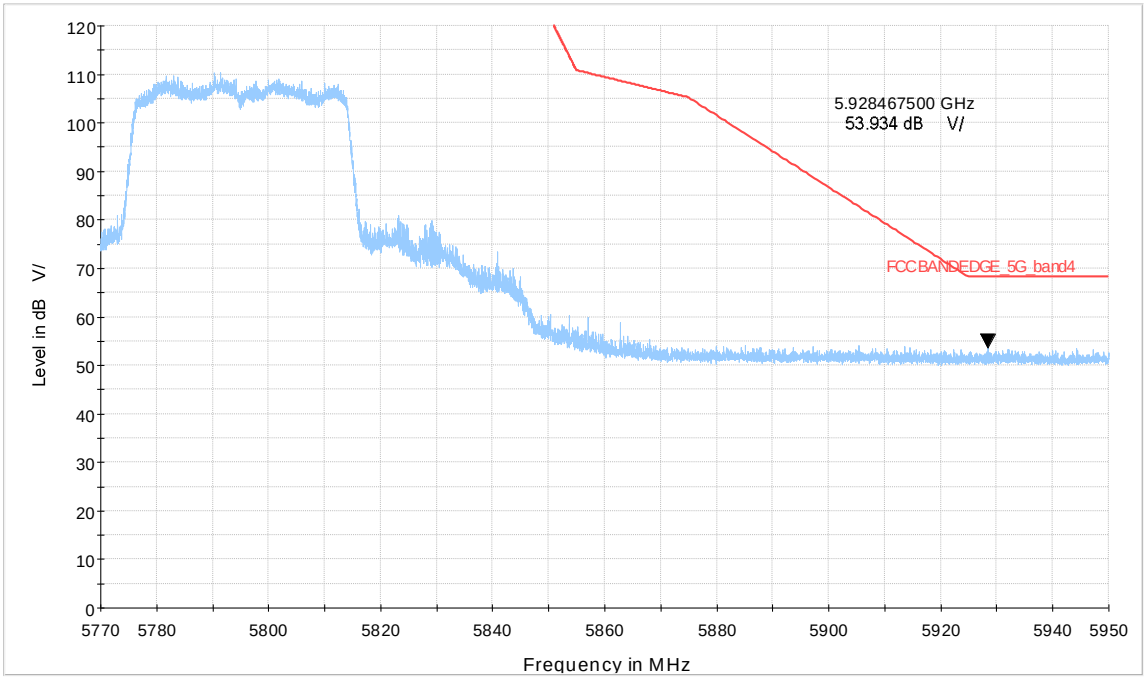
Wi-Fi 5GHz_ax40 CH134



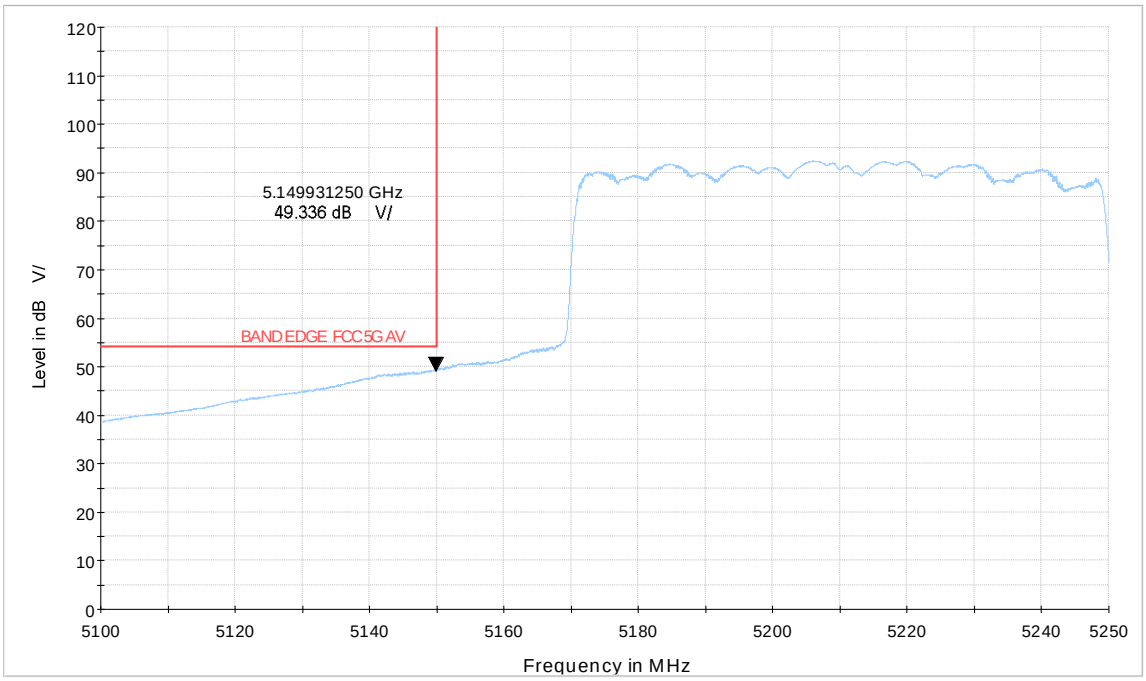
Wi-Fi 5GHz_ax40 CH142

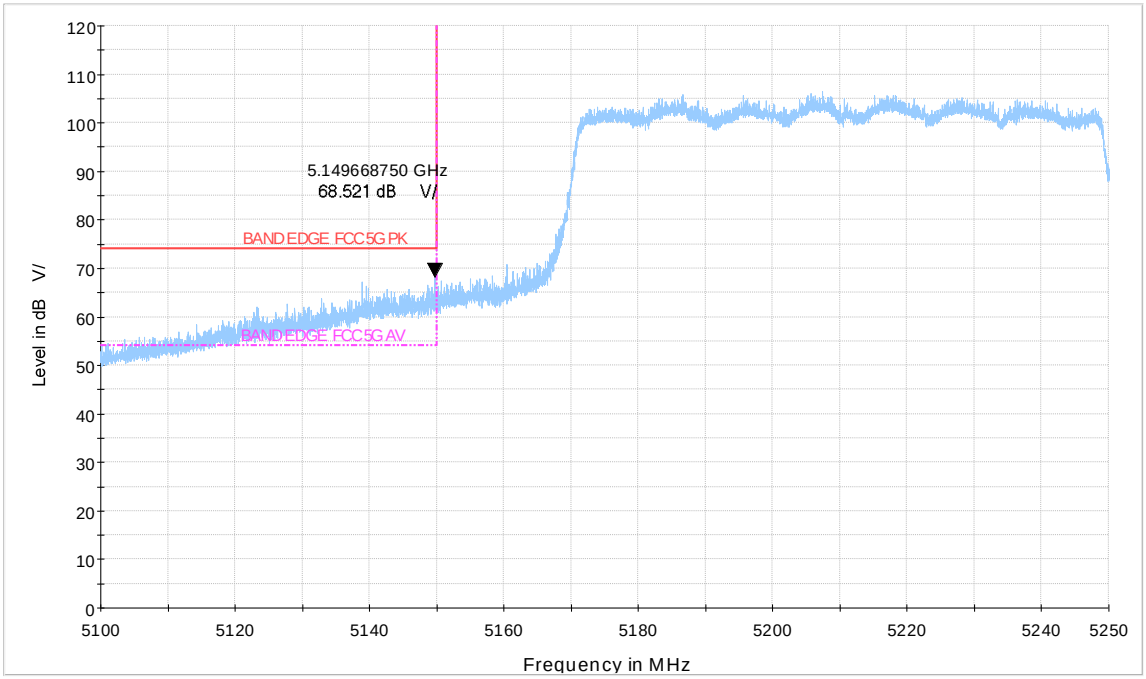


Wi-Fi 5GHz_ax40 CH151

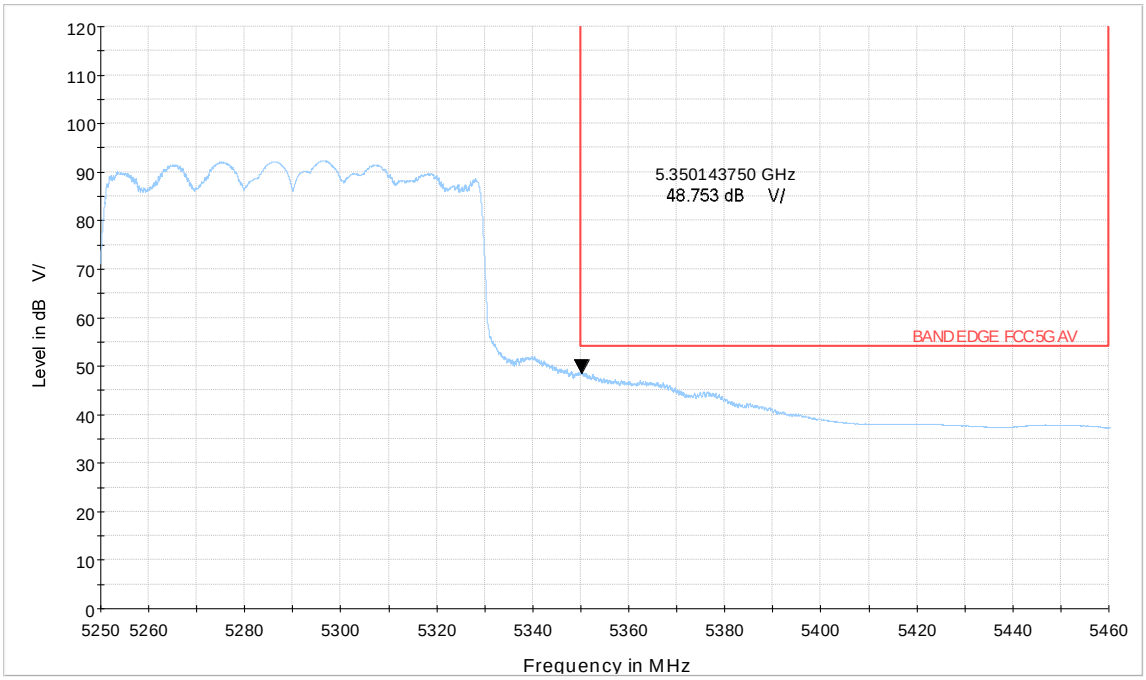


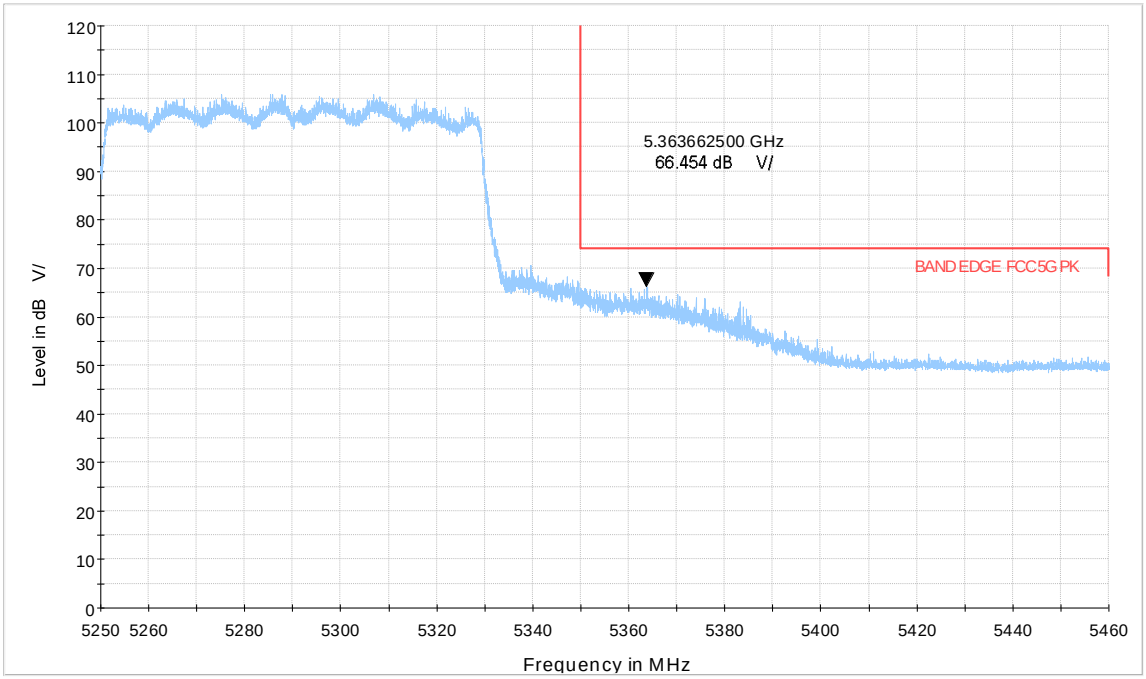
Wi-Fi 5GHz_ax40 CH159



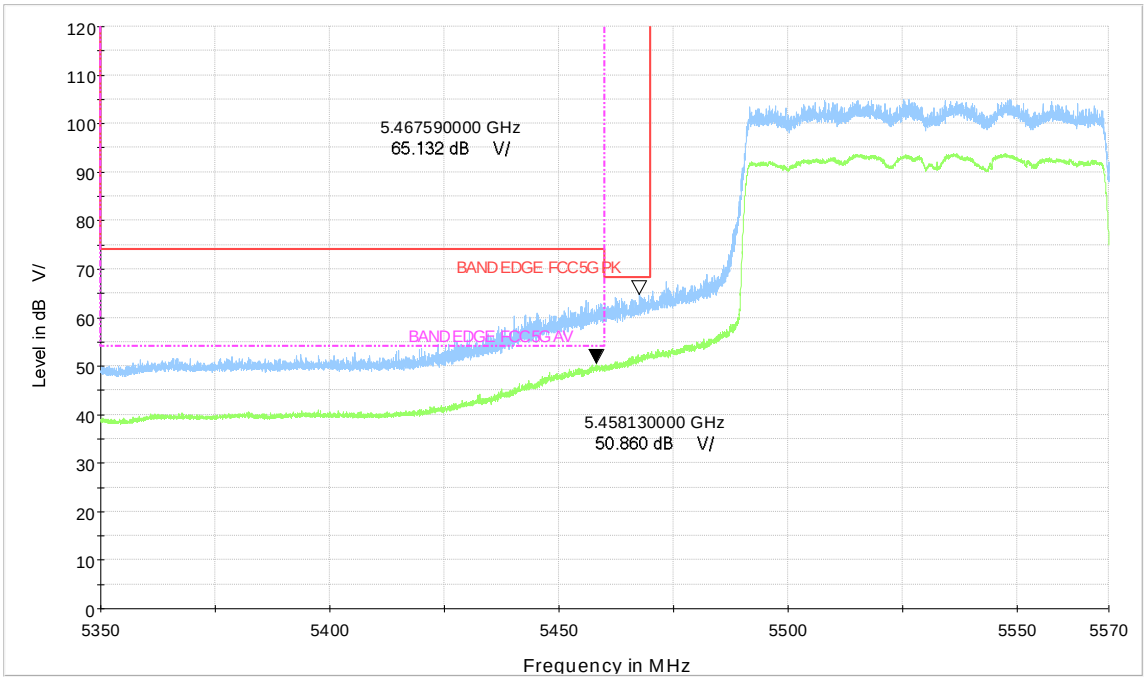


Wi-Fi 5GHz_ax80 CH42

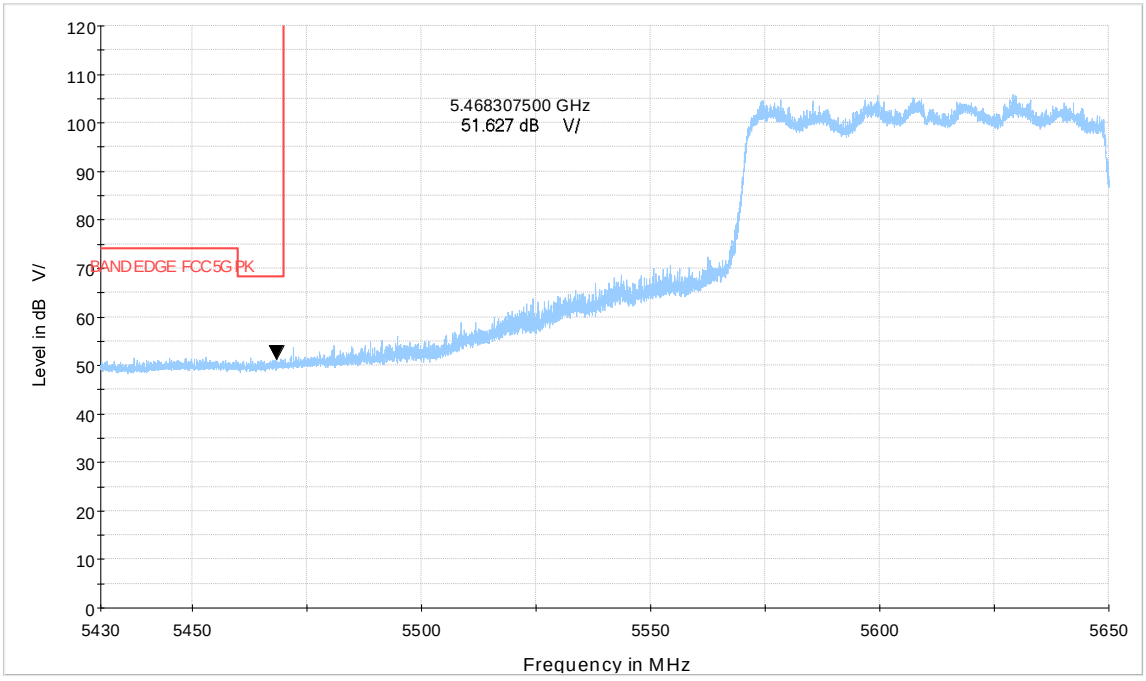




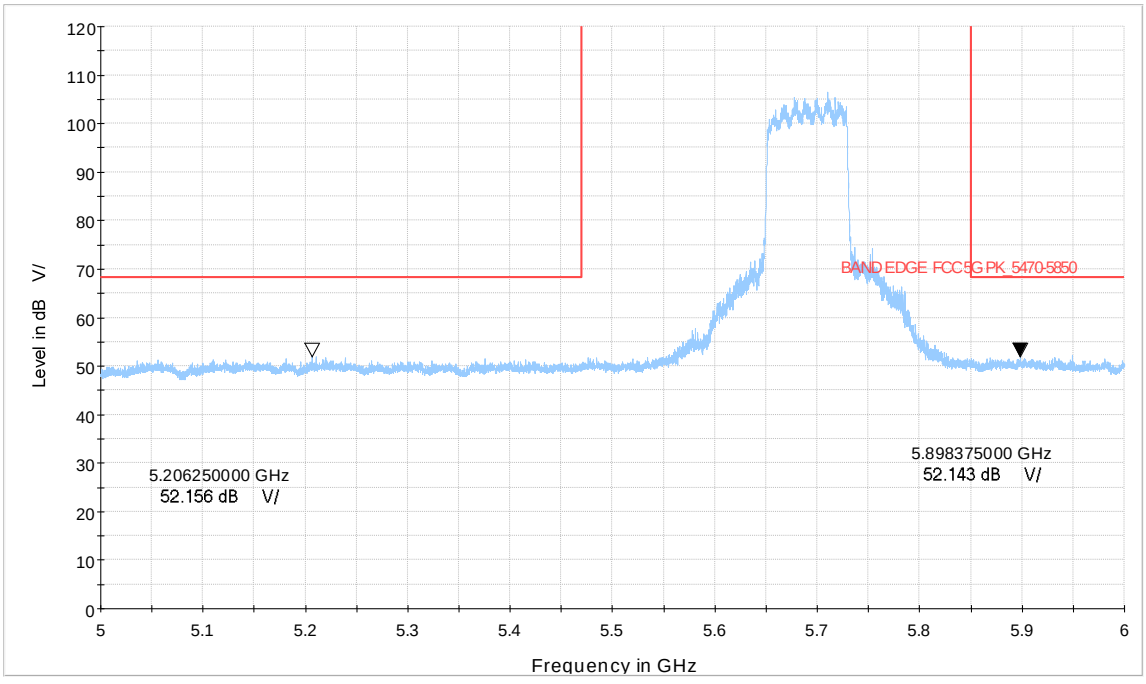
Wi-Fi 5GHz_ax80 CH58



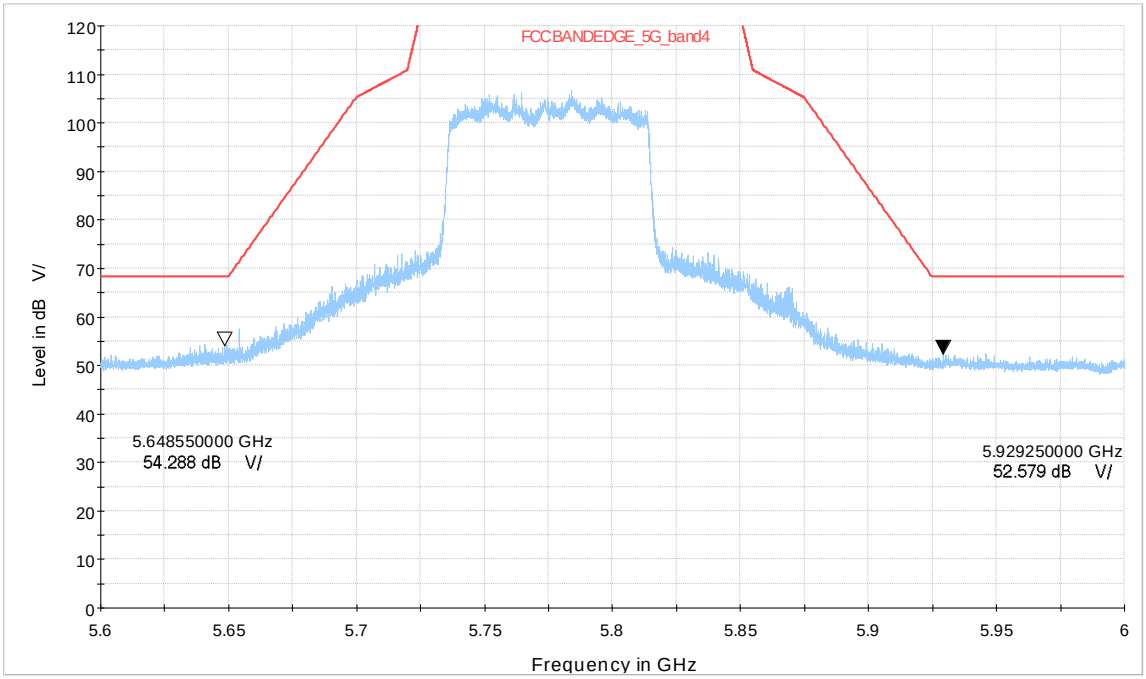
Wi-Fi 5GHz_ax80 CH106



Wi-Fi 5GHz_ax80 CH122

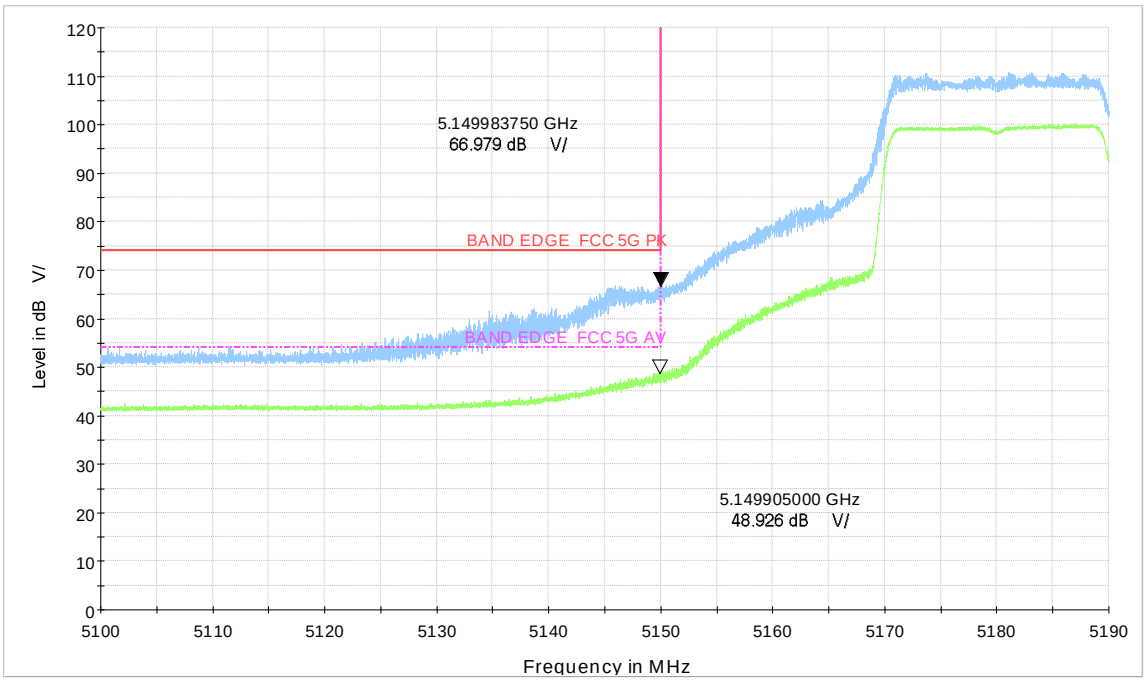


Wi-Fi 5GHz_ax80 CH138

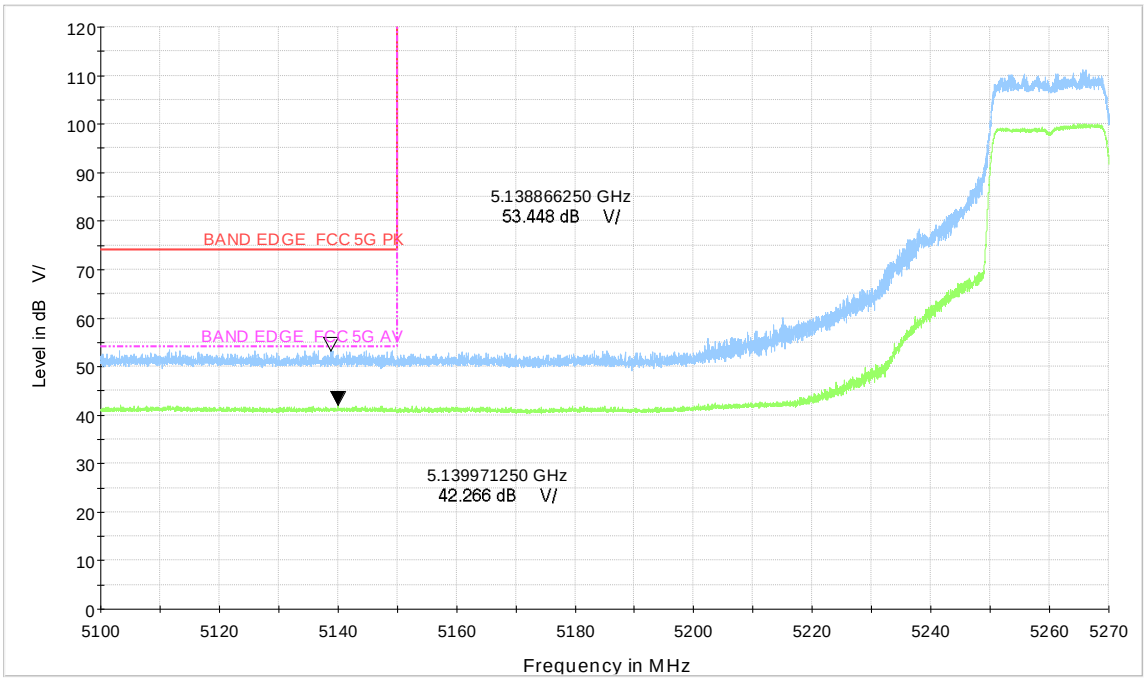


Wi-Fi 5GHz_ax80 CH155

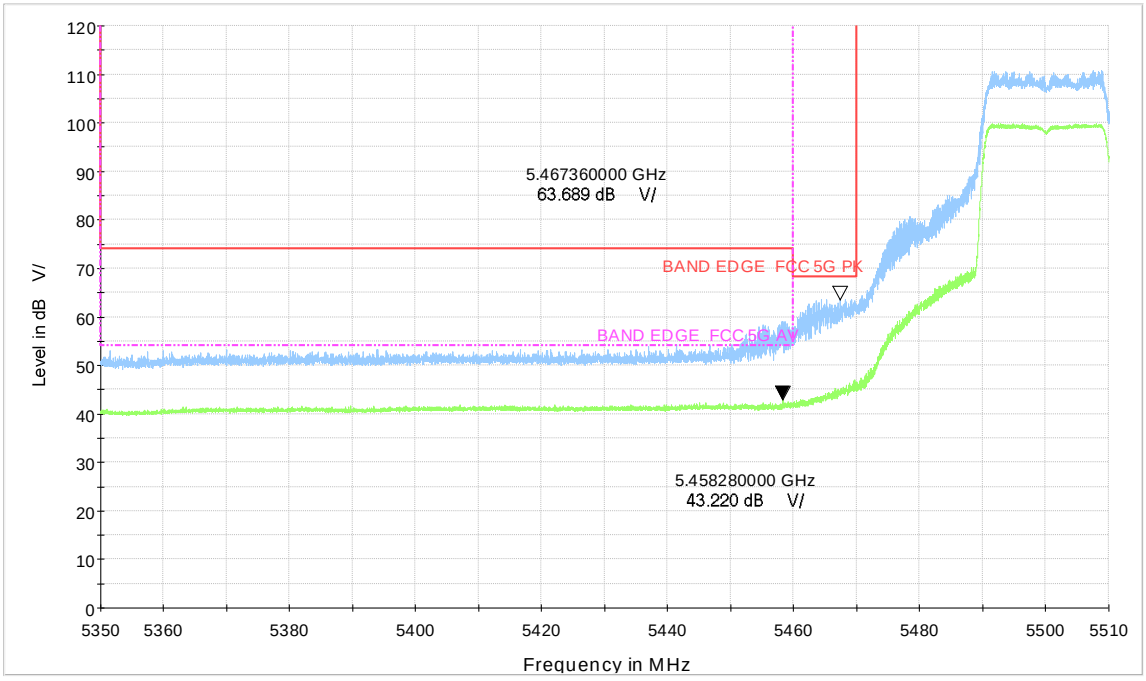
TB Mode



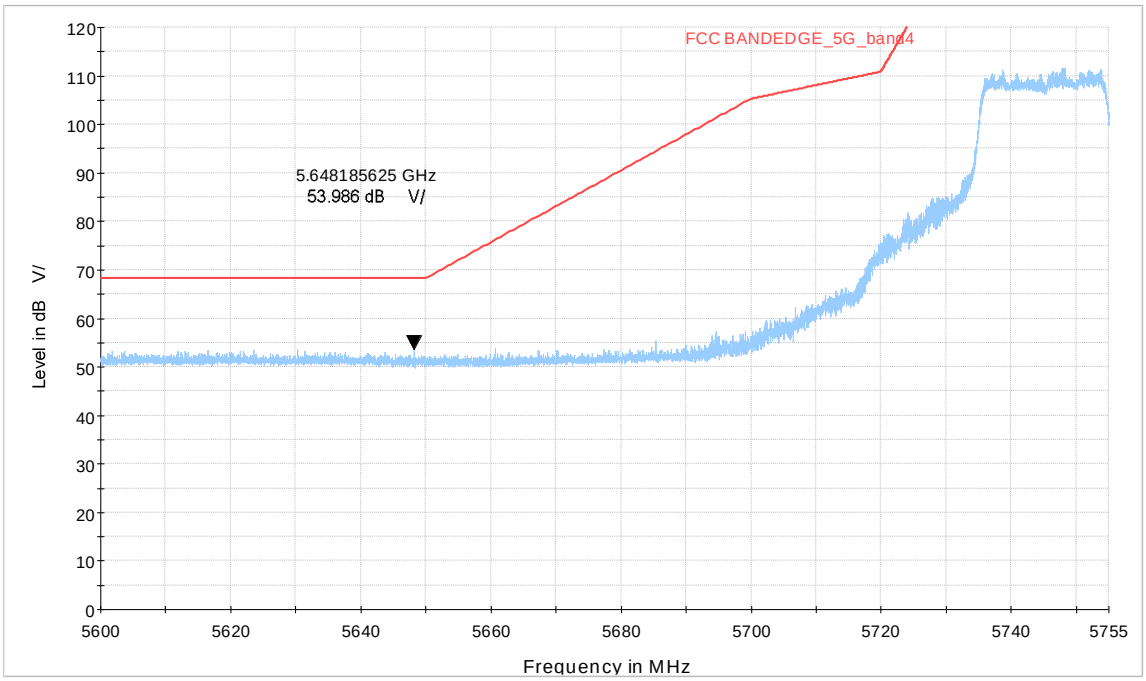
Wi-Fi 5GHz TB_ax20 CH36_242Tone



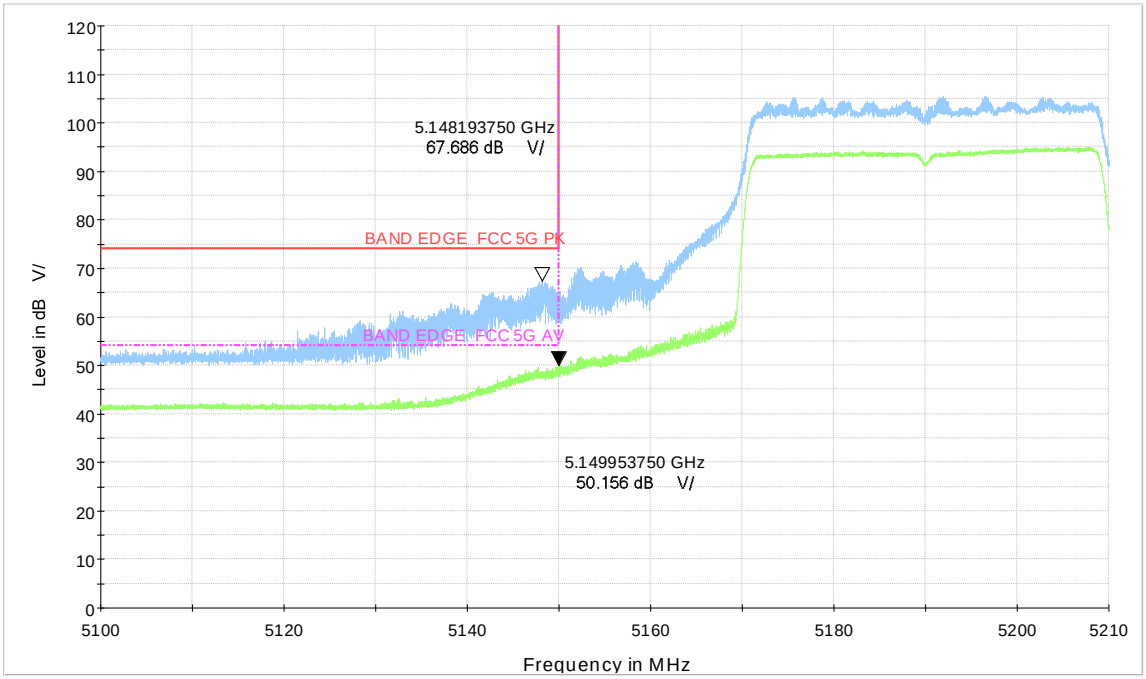
Wi-Fi 5GHz TB_ax20 CH52_242Tone



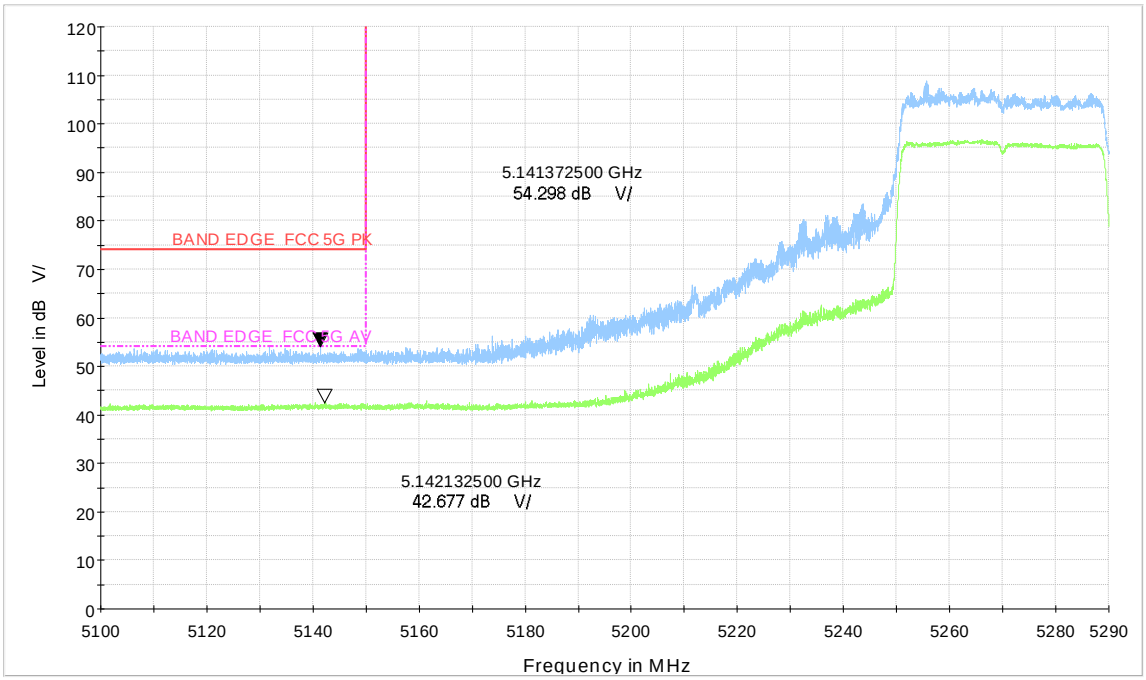
Wi-Fi 5GHz TB_ax20 CH100_242Tone



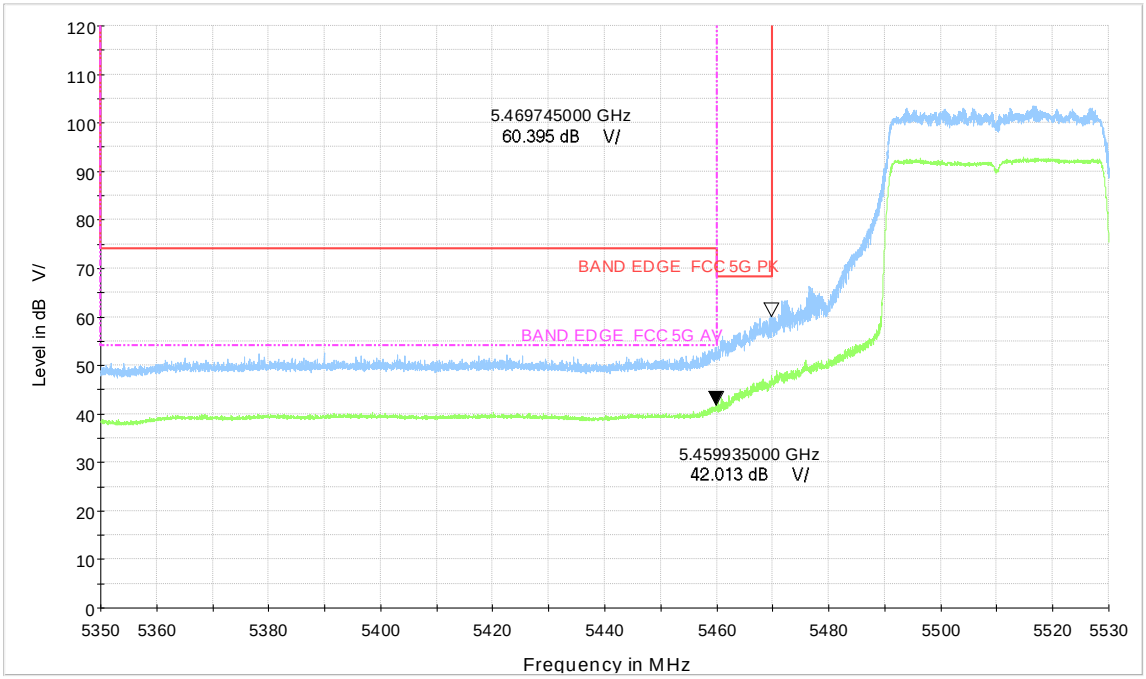
Wi-Fi 5GHz TB_ax20 CH149_242Tone



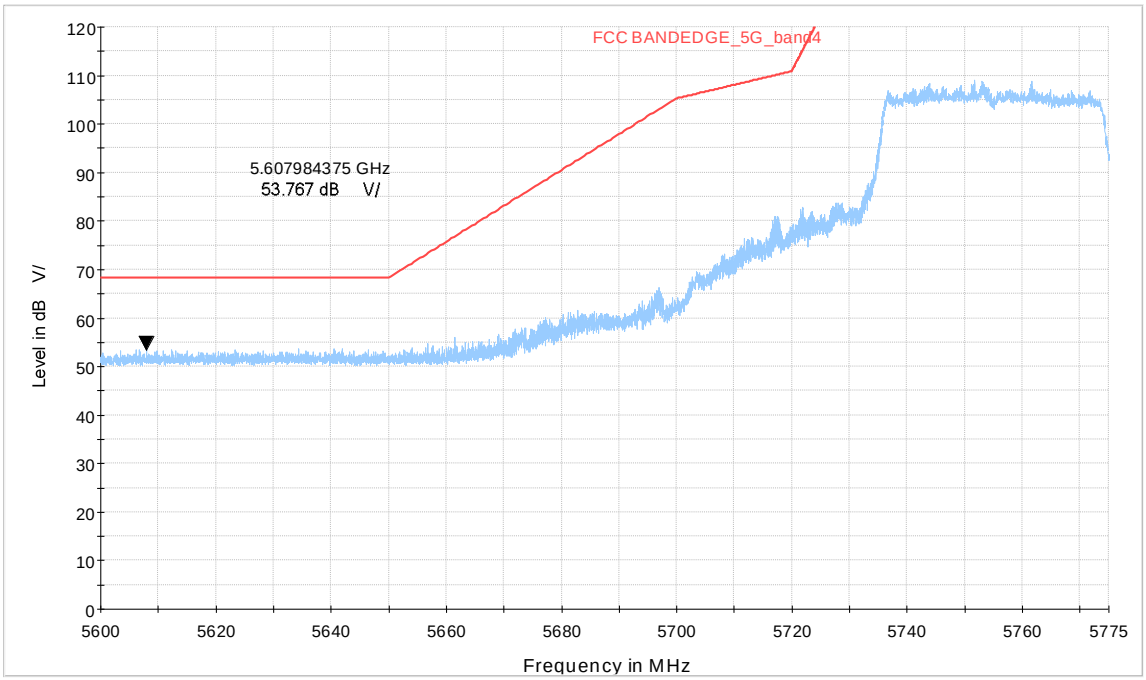
Wi-Fi 5GHz TB_ax40 CH38_484Tone



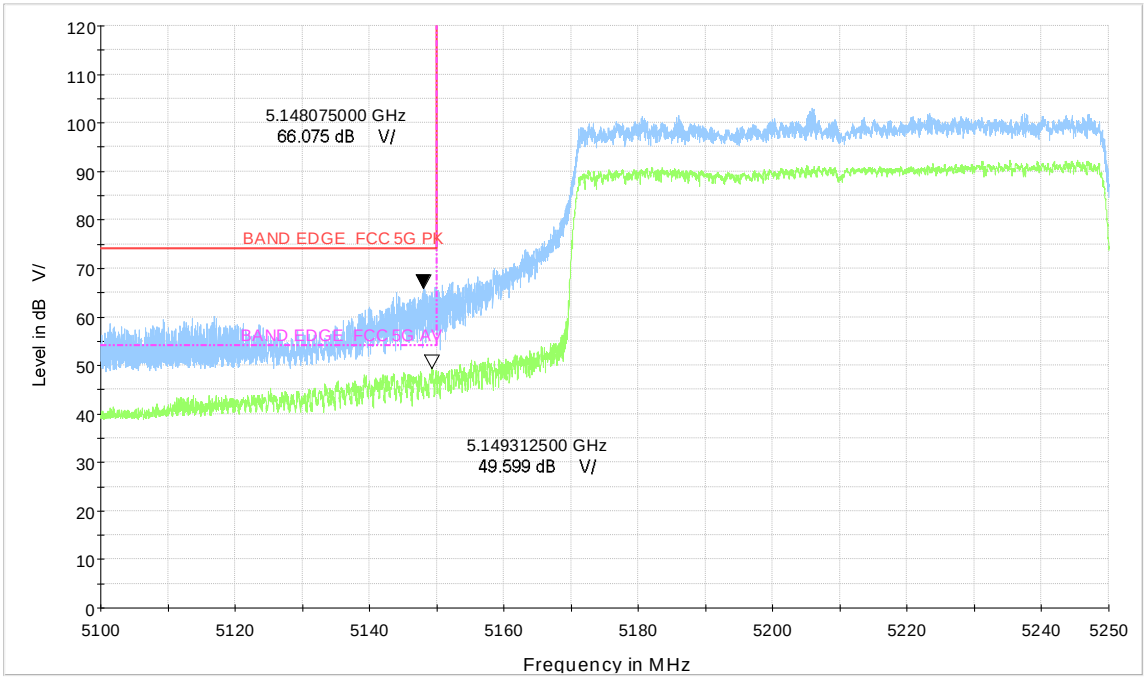
Wi-Fi 5GHz TB_ax40 CH54_484Tone



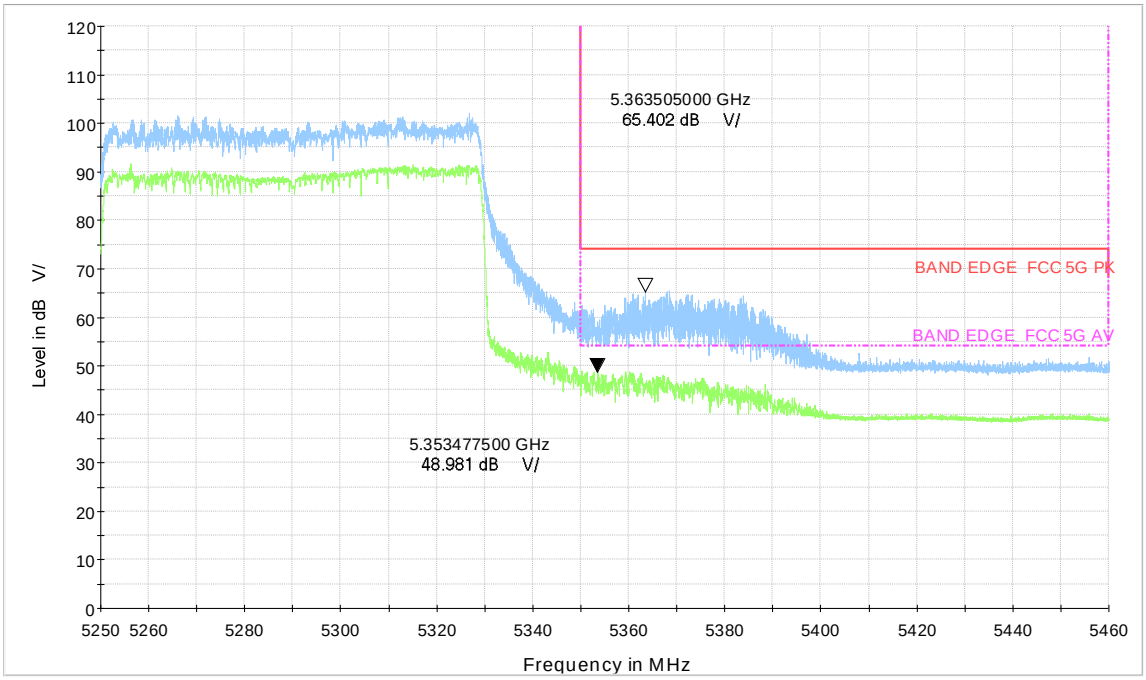
Wi-Fi 5GHz TB_ax40 CH102_484Tone



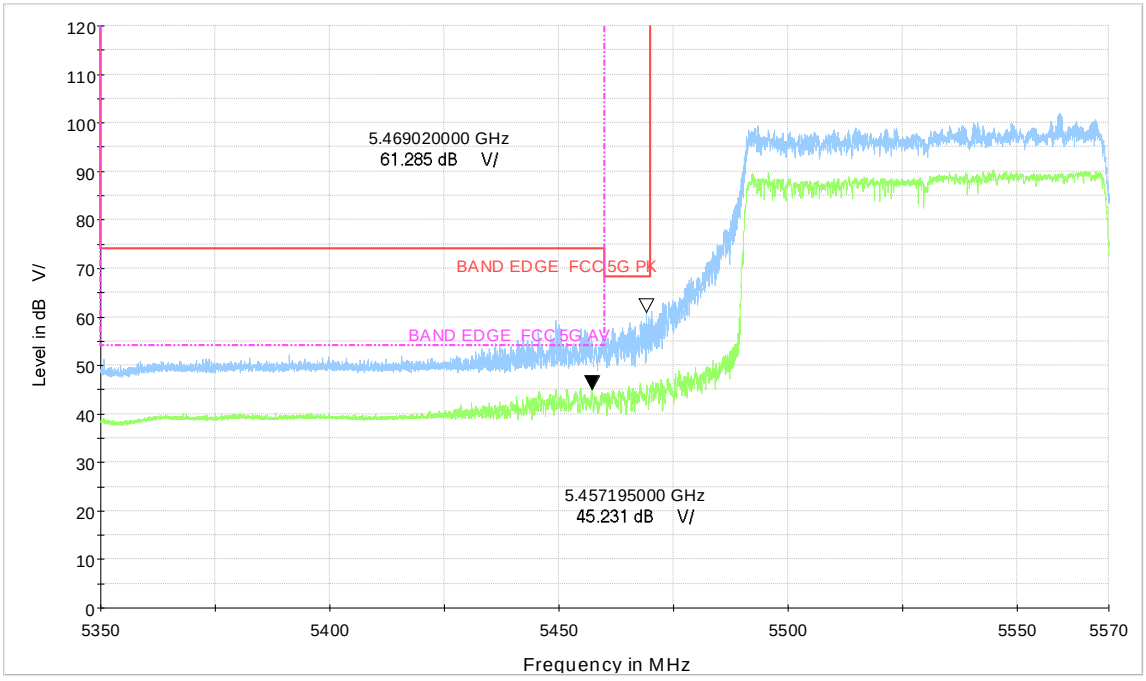
Wi-Fi 5GHz TB_ax40 CH151_484Tone



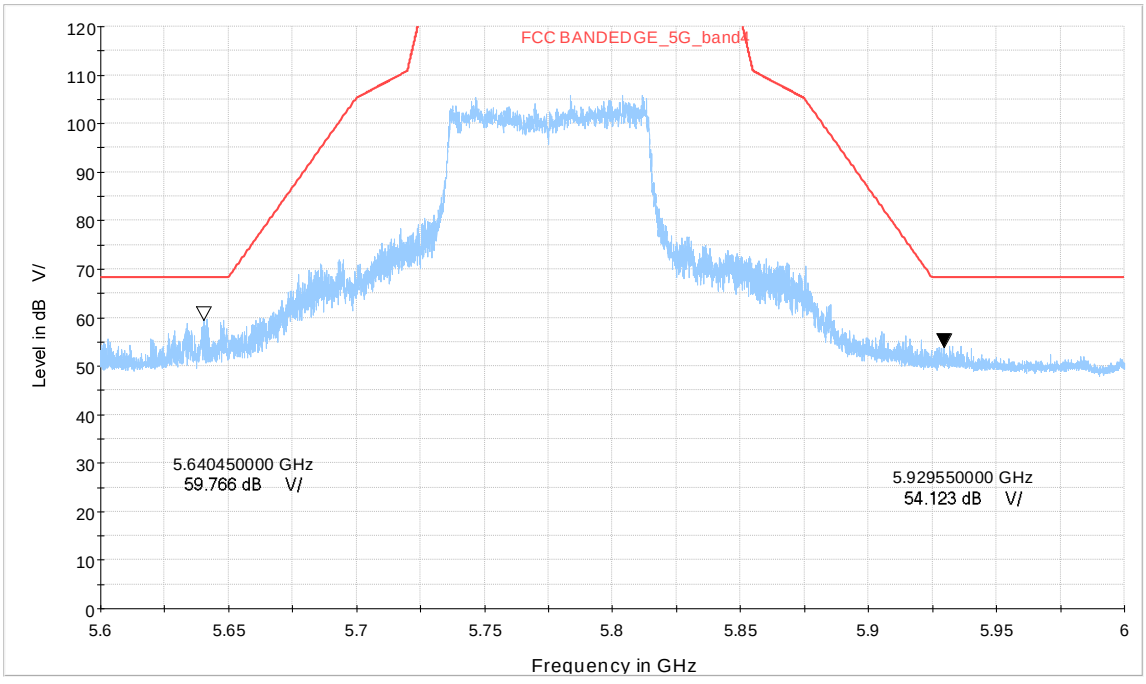
Wi-Fi 5GHz TB_ax80 CH42_996Tone



Wi-Fi 5GHz TB_ax80 CH58_996Tone



Wi-Fi 5GHz TB_ax80 CH106_996Tone



Wi-Fi 5GHz TB_ax80 CH155_996Tone

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier,

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol (dB V/) in the test plot below means (dBµV/m)**
   A symbol (dBµV/) in the test plot below means (dBµV/m)
4. **For below 1GHz**

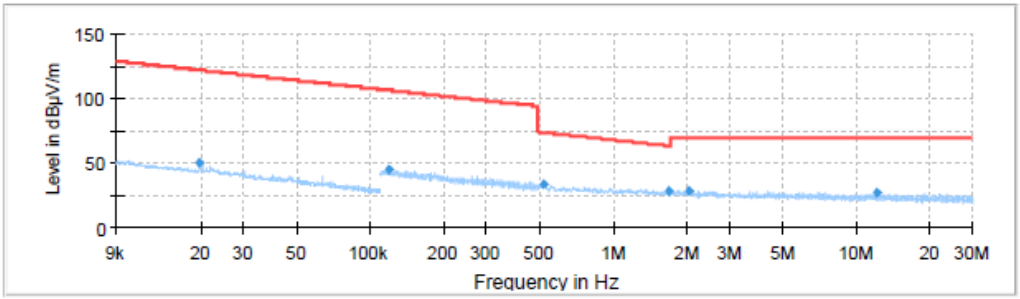
QP Level @Spectrum Overview H QP Level @Spectrum Overview V QP Level @Final Results QP Limit

For above 1GHz

PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit

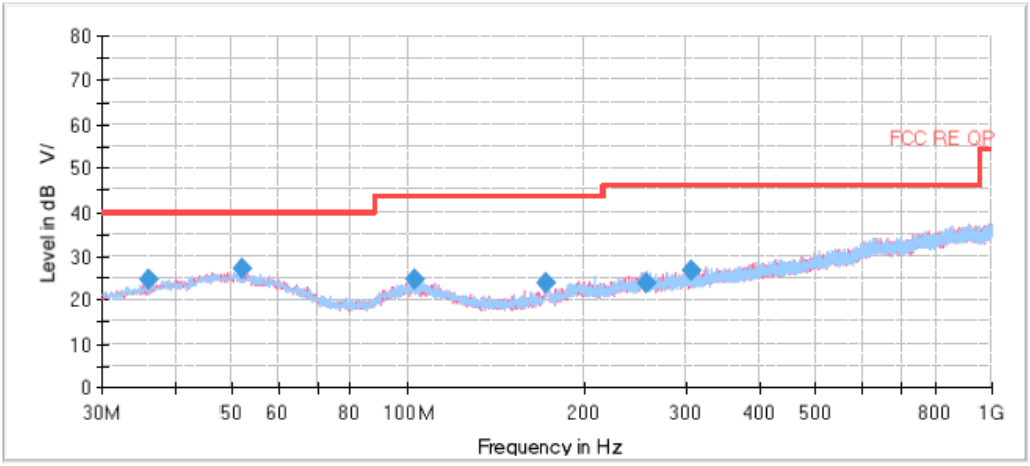
AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

Continuous TX mode:



Final Result

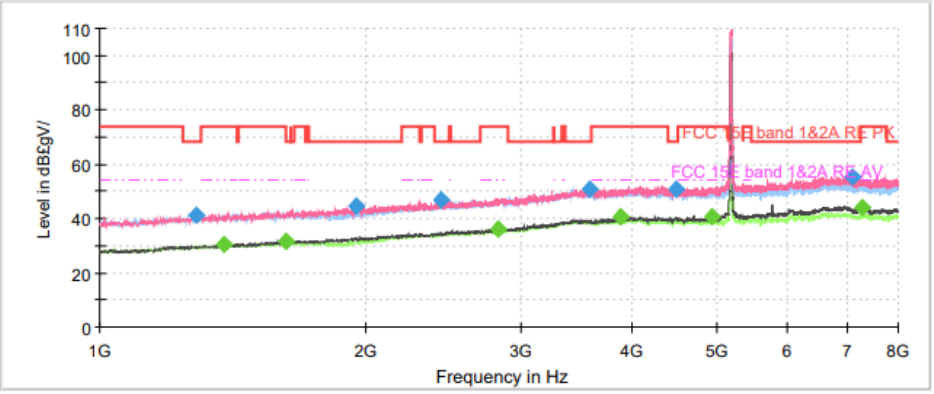
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.02	50.14	121.67	71.54	500.00	0.200	V	109.00	17
0.12	44.62	106.13	61.52	150.00	9.000	V	325.00	17
0.52	33.14	73.29	40.15	150.00	9.000	V	4.00	17
1.67	27.75	63.12	35.36	150.00	9.000	V	300.00	17
2.04	28.30	69.50	41.20	150.00	9.000	V	8.00	17
12.13	27.16	69.50	42.34	150.00	9.000	V	222.00	17



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.138750	24.55	40.00	15.45	1000.0	222.0	H	238.0	18.5
52.028750	26.95	40.00	13.05	1000.0	125.0	H	273.0	21.0
102.743750	24.75	43.50	18.75	1000.0	198.0	H	113.0	19.2
173.110000	23.94	43.50	19.56	1000.0	100.0	H	169.0	19.3
256.007500	23.99	46.00	22.01	1000.0	110.0	H	42.0	20.4
305.682500	26.53	46.00	19.47	1000.0	197.0	V	289.0	21.2

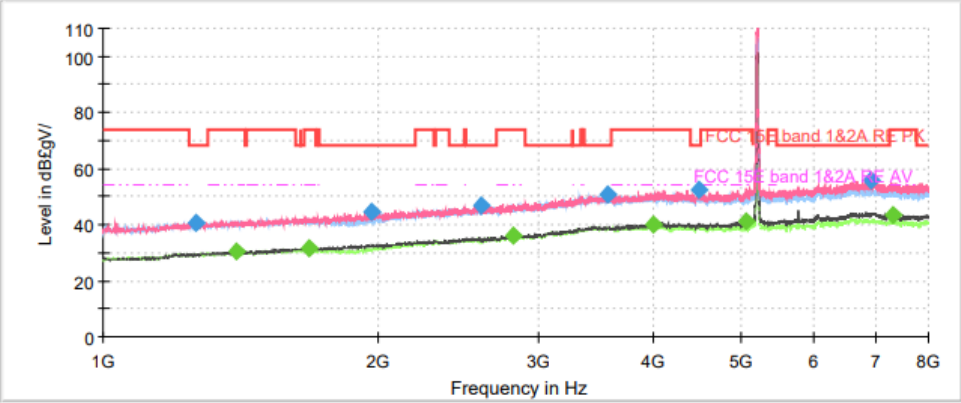
Wi-Fi 5GHz_a CH36_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1287.875000	41.15	---	68.20	27.05	500.0	200.0	V	84.0	-8.3
1384.125000	---	30.32	54.00	23.68	500.0	200.0	V	232.0	-7.7
1620.375000	---	31.71	54.00	22.29	500.0	200.0	V	218.0	-6.3
1947.625000	44.76	---	68.20	23.44	500.0	200.0	V	348.0	-4.7
2427.125000	46.96	---	68.20	21.24	500.0	200.0	V	283.0	-2.5
2817.375000	---	36.22	54.00	17.78	500.0	200.0	V	348.0	-1.2
3585.625000	51.05	---	68.20	17.15	500.0	200.0	V	298.0	1.8
3879.625000	---	40.50	54.00	13.50	500.0	200.0	V	311.0	2.6
4480.750000	50.60	---	68.20	17.60	500.0	200.0	V	306.0	3.8
4931.375000	---	40.69	54.00	13.31	500.0	200.0	V	357.0	4.6
7088.250000	55.46	---	68.20	12.74	500.0	200.0	V	325.0	7.0
7288.625000	---	43.78	54.00	10.22	500.0	200.0	V	339.0	7.0

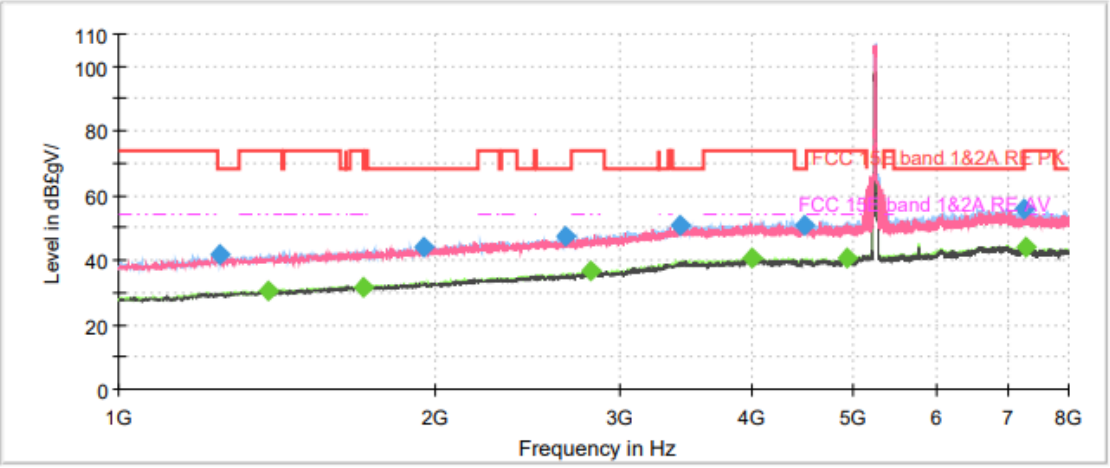
Wi-Fi 5GHz_a CH40_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1266.000000	40.63	---	68.20	27.57	500.0	200.0	V	222.0	-8.5
1396.375000	---	30.37	54.00	23.63	500.0	200.0	H	34.0	-7.6
1683.375000	---	31.69	54.00	22.31	500.0	200.0	V	319.0	-6.0
1963.375000	44.33	---	68.20	23.87	500.0	200.0	V	331.0	-4.7
2595.125000	46.61	---	68.20	21.59	500.0	200.0	V	291.0	-2.0
2813.000000	---	36.03	54.00	17.97	500.0	200.0	V	341.0	-1.2
3564.625000	50.94	---	68.20	17.26	500.0	200.0	H	56.0	1.7
3996.875000	---	40.32	54.00	13.68	500.0	200.0	V	331.0	3.2
4484.250000	52.24	---	68.20	15.96	500.0	200.0	V	300.0	3.8
5063.500000	---	41.35	54.00	12.65	500.0	200.0	V	355.0	5.0
6933.375000	56.08	---	68.20	12.12	500.0	200.0	V	327.0	7.0
7319.250000	---	43.57	54.00	10.43	500.0	200.0	V	319.0	7.0

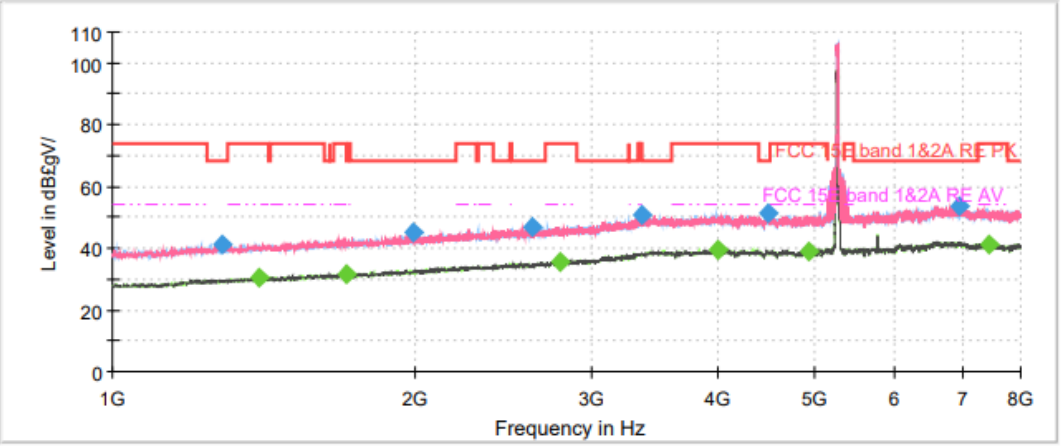
Wi-Fi 5GHz_a CH48_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1246.750000	41.57	---	68.20	26.63	500.0	200.0	H	269.0	-8.6
1389.375000	---	30.50	54.00	23.50	500.0	200.0	H	331.0	-7.6
1709.625000	---	31.85	54.00	22.15	500.0	200.0	H	223.0	-5.9
1951.125000	44.09	---	68.20	24.11	500.0	200.0	H	0.0	-4.7
2661.625000	47.13	---	68.20	21.07	500.0	200.0	V	0.0	-1.9
2811.250000	---	36.58	54.00	17.42	500.0	200.0	H	197.0	-1.2
3420.250000	51.00	---	68.20	17.20	500.0	200.0	H	349.0	1.4
3997.750000	---	40.63	54.00	13.37	500.0	200.0	H	197.0	3.2
4478.125000	50.79	---	68.20	17.41	500.0	200.0	H	340.0	3.7
4930.500000	---	40.50	54.00	13.50	500.0	200.0	H	233.0	4.6
7248.375000	55.85	---	68.20	12.35	500.0	200.0	H	322.0	7.1
7270.250000	---	43.95	54.00	10.05	500.0	200.0	H	223.0	7.1

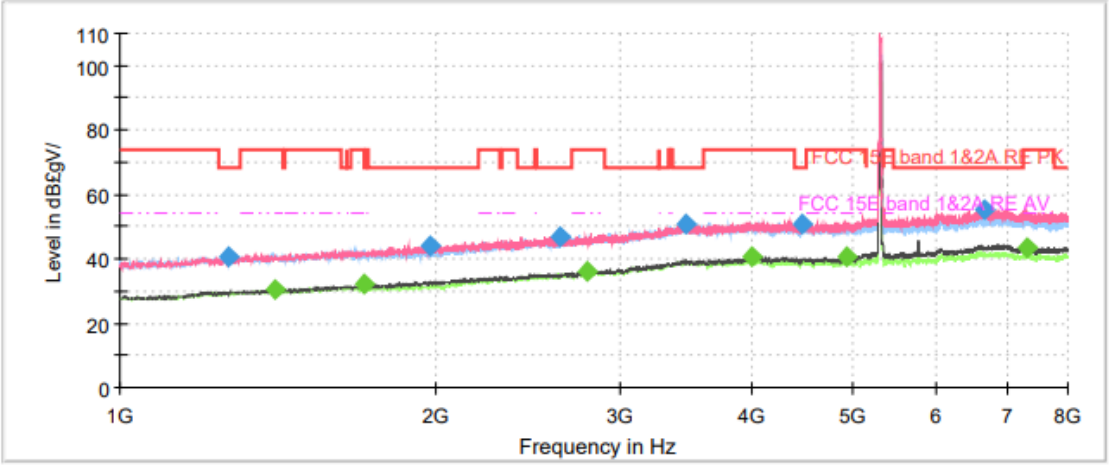
Wi-Fi 5GHz_a CH52_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1283.500000	41.16	---	68.20	27.04	500.0	200.0	H	203.0	-8.3
1399.875000	---	30.24	54.00	23.76	500.0	200.0	H	212.0	-7.6
1708.750000	---	31.73	54.00	22.27	500.0	200.0	H	337.0	-5.9
1989.625000	44.92	---	68.20	23.28	500.0	200.0	H	301.0	-4.6
2616.125000	47.00	---	68.20	21.20	500.0	200.0	V	69.0	-2.0
2792.000000	---	35.78	54.00	18.22	500.0	200.0	V	325.0	-1.3
3361.625000	50.56	---	68.20	17.64	500.0	200.0	H	292.0	1.0
3998.625000	---	39.54	54.00	14.46	500.0	200.0	H	68.0	3.2
4486.875000	51.43	---	68.20	16.77	500.0	200.0	V	224.0	3.8
4936.625000	---	39.11	54.00	14.89	500.0	200.0	H	1.0	4.6
6944.750000	53.86	---	68.20	14.34	500.0	200.0	V	241.0	7.1
7427.750000	---	41.32	54.00	12.68	500.0	200.0	H	48.0	7.1

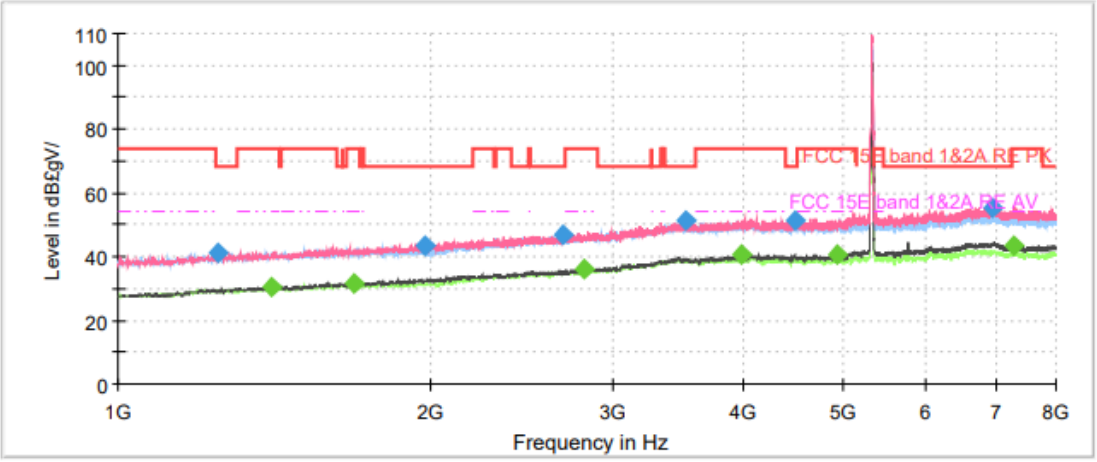
Wi-Fi 5GHz_a CH60_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1270.375000	40.76	---	68.20	27.44	500.0	200.0	V	317.0	-8.4
1403.375000	---	30.40	54.00	23.60	500.0	200.0	V	247.0	-7.6
1705.250000	---	32.20	54.00	21.80	500.0	200.0	V	335.0	-6.0
1971.250000	44.03	---	68.20	24.17	500.0	200.0	V	331.0	-4.7
2628.375000	46.97	---	68.20	21.23	500.0	200.0	H	204.0	-2.0
2788.500000	---	36.08	54.00	17.92	500.0	200.0	V	238.0	-1.3
3455.250000	50.90	---	68.20	17.30	500.0	200.0	H	294.0	1.6
3993.375000	---	40.43	54.00	13.57	500.0	200.0	V	243.0	3.2
4472.875000	50.90	---	68.20	17.30	500.0	200.0	V	354.0	3.7
4928.750000	---	40.37	54.00	13.63	500.0	200.0	V	247.0	4.6
6661.250000	55.28	---	68.20	12.92	500.0	200.0	V	344.0	6.6
7310.500000	---	43.66	54.00	10.34	500.0	200.0	V	313.0	7.0

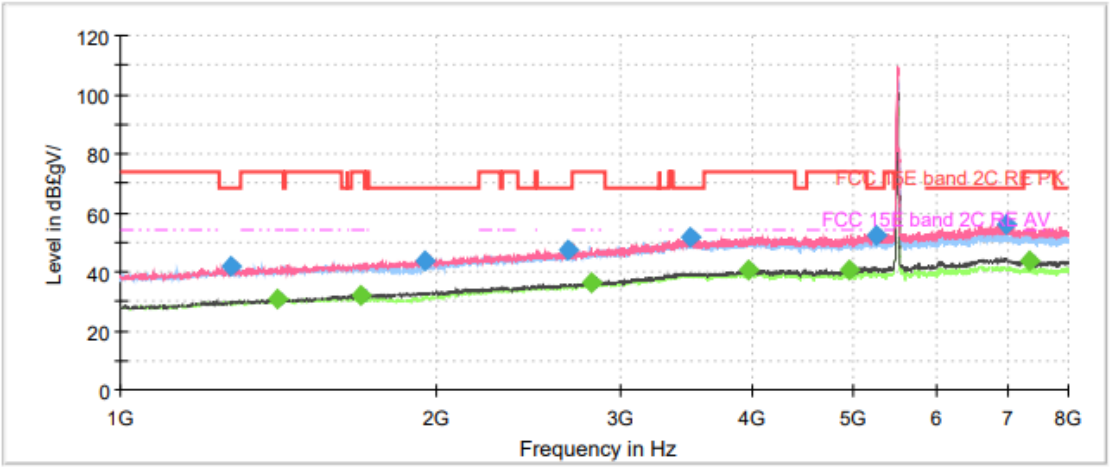
Wi-Fi 5GHz_a CH64_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1246.750000	41.33	---	68.20	26.87	500.0	200.0	H	41.0	-8.6
1407.750000	---	30.46	54.00	23.54	500.0	200.0	V	216.0	-7.5
1689.500000	---	31.66	54.00	22.34	500.0	200.0	V	0.0	-6.0
1973.000000	43.67	---	68.20	24.53	500.0	200.0	V	358.0	-4.7
2680.000000	46.82	---	68.20	21.38	500.0	200.0	V	348.0	-1.8
2813.000000	---	36.05	54.00	17.95	500.0	200.0	H	23.0	-1.2
3514.750000	51.06	---	68.20	17.14	500.0	200.0	H	347.0	1.8
3985.500000	---	40.43	54.00	13.57	500.0	200.0	V	300.0	3.2
4488.625000	51.46	---	68.20	16.74	500.0	200.0	V	320.0	3.8
4935.750000	---	40.60	54.00	13.40	500.0	200.0	V	315.0	4.6
6964.000000	55.37	---	68.20	12.83	500.0	200.0	V	334.0	7.1
7279.000000	---	43.57	54.00	10.43	500.0	200.0	V	300.0	7.1

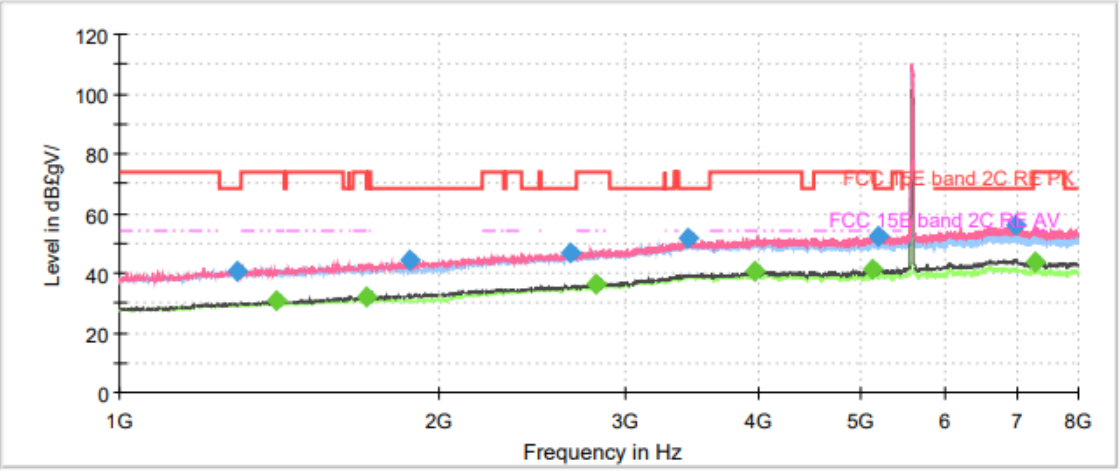
Wi-Fi 5GHz_a CH100_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1276.500000	41.76	---	68.20	26.44	500.0	200.0	V	185.0	-8.4
1413.000000	---	30.59	54.00	23.41	500.0	200.0	V	121.0	-7.5
1695.625000	---	32.00	54.00	22.00	500.0	200.0	V	49.0	-6.0
1947.625000	43.94	---	68.20	24.26	500.0	200.0	V	75.0	-4.7
2670.375000	47.10	---	68.20	21.10	500.0	200.0	V	121.0	-1.9
2811.250000	---	36.38	54.00	17.62	500.0	200.0	V	121.0	-1.2
3484.125000	51.68	---	68.20	16.52	500.0	200.0	V	75.0	1.7
3969.750000	---	40.49	54.00	13.51	500.0	200.0	V	25.0	3.0
4943.625000	---	40.74	54.00	13.26	500.0	200.0	V	85.0	4.6
5241.125000	52.34	---	68.20	15.86	500.0	200.0	V	180.0	5.3
6971.000000	56.28	---	68.20	11.92	500.0	200.0	V	212.0	7.1
7334.125000	---	43.68	54.00	10.32	500.0	200.0	V	58.0	7.0

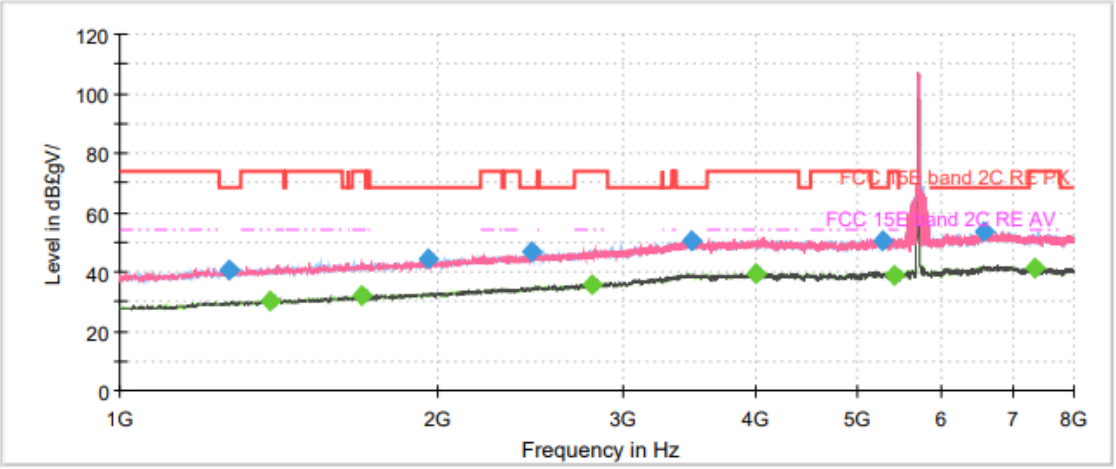
Wi-Fi 5GHz_a CH116_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1291.375000	40.89	---	68.20	27.31	500.0	200.0	H	168.0	-8.3
1404.250000	---	30.79	54.00	23.21	500.0	200.0	V	144.0	-7.6
1707.000000	---	31.69	54.00	22.31	500.0	200.0	V	116.0	-5.9
1876.750000	44.48	---	68.20	23.72	500.0	200.0	V	93.0	-5.1
2656.375000	46.62	---	68.20	21.58	500.0	200.0	H	356.0	-1.9
2808.625000	---	36.32	54.00	17.68	500.0	200.0	V	80.0	-1.2
3432.500000	51.67	---	68.20	16.53	500.0	200.0	V	144.0	1.5
3967.125000	---	40.57	54.00	13.43	500.0	200.0	V	8.0	3.0
5125.625000	---	41.47	54.00	12.53	500.0	200.0	V	85.0	5.1
5189.500000	52.52	---	68.20	15.68	500.0	200.0	V	71.0	5.3
6980.625000	56.10	---	68.20	12.10	500.0	200.0	V	17.0	7.1
7276.375000	---	43.79	54.00	10.21	500.0	200.0	V	12.0	7.1

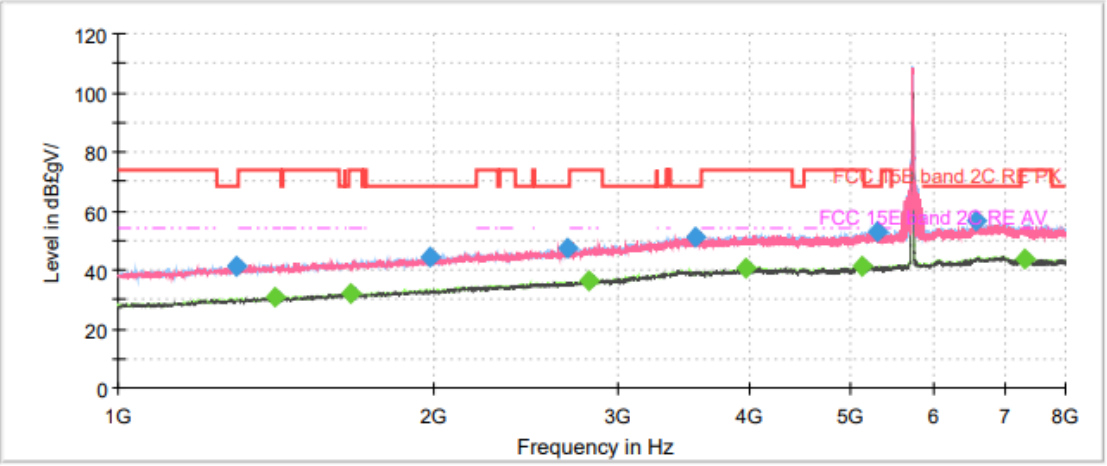
Wi-Fi 5GHz_a CH140_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1266.875000	40.78	---	68.20	27.42	500.0	200.0	V	14.0	-8.5
1385.000000	---	30.30	54.00	23.70	500.0	200.0	V	256.0	-7.7
1693.000000	---	31.71	54.00	22.29	500.0	200.0	H	249.0	-6.0
1961.625000	44.30	---	68.20	23.90	500.0	200.0	V	170.0	-4.7
2453.375000	46.54	---	68.20	21.66	500.0	200.0	H	316.0	-2.3
2793.750000	---	35.84	54.00	18.16	500.0	200.0	V	24.0	-1.3
3478.000000	50.41	---	68.20	17.79	500.0	200.0	H	208.0	1.7
3996.875000	---	39.46	54.00	14.54	500.0	200.0	H	231.0	3.2
5265.625000	50.55	---	68.20	17.65	500.0	200.0	H	335.0	5.3
5410.875000	---	39.05	54.00	14.95	500.0	200.0	V	0.0	5.1
6585.125000	53.59	---	68.20	14.61	500.0	200.0	H	236.0	6.6
7363.000000	---	41.28	54.00	12.72	500.0	200.0	H	284.0	7.1

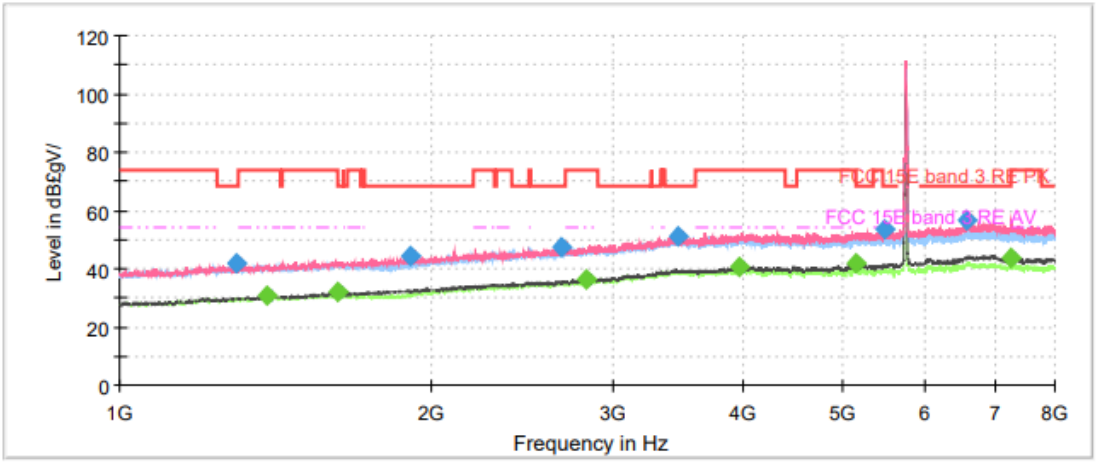
Wi-Fi 5GHz_a CH144_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.375000	41.33	---	68.20	26.87	500.0	200.0	H	218.0	-8.2
1408.625000	---	30.54	54.00	23.46	500.0	200.0	H	200.0	-7.5
1666.750000	---	31.82	54.00	22.18	500.0	200.0	H	316.0	-6.1
1986.125000	44.31	---	68.20	23.89	500.0	200.0	H	353.0	-4.6
2677.375000	47.19	---	68.20	21.01	500.0	200.0	H	114.0	-1.8
2813.875000	---	36.37	54.00	17.63	500.0	200.0	V	98.0	-1.2
3548.000000	51.23	---	68.20	16.97	500.0	200.0	H	85.0	1.7
3969.750000	---	40.44	54.00	13.56	500.0	200.0	H	316.0	3.0
5113.375000	---	40.95	54.00	13.05	500.0	200.0	V	17.0	5.1
5294.500000	52.70	---	68.20	15.50	500.0	200.0	H	270.0	5.4
6585.125000	56.36	---	68.20	11.84	500.0	200.0	V	8.0	6.6
7317.500000	---	43.75	54.00	10.25	500.0	200.0	H	195.0	7.0

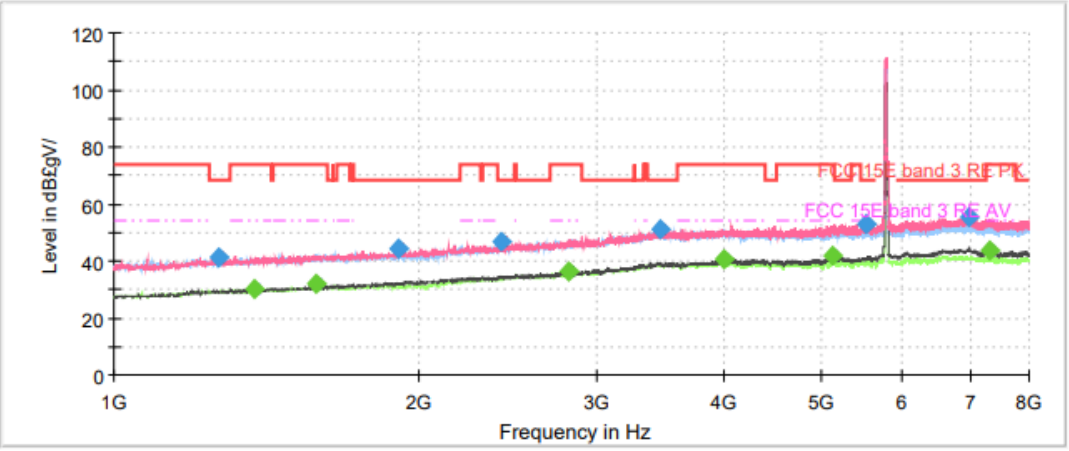
Wi-Fi 5GHz_a CH149_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1296.625000	41.72	---	68.20	26.48	500.0	200.0	V	139.0	-8.2
1387.625000	---	30.57	54.00	23.43	500.0	200.0	V	257.0	-7.7
1623.000000	---	31.76	54.00	22.24	500.0	200.0	V	225.0	-6.3
1911.750000	44.33	---	68.20	23.87	500.0	200.0	V	354.0	-4.9
2668.625000	47.09	---	68.20	21.11	500.0	200.0	V	340.0	-1.9
2816.500000	---	36.46	54.00	17.54	500.0	200.0	V	262.0	-1.2
3460.500000	50.98	---	68.20	17.22	500.0	200.0	V	158.0	1.6
3971.500000	---	40.47	54.00	13.53	500.0	200.0	V	331.0	3.0
5138.750000	---	41.54	54.00	12.46	500.0	200.0	V	266.0	5.0
5473.000000	53.46	---	68.20	14.74	500.0	200.0	V	321.0	5.4
6590.375000	56.69	---	68.20	11.51	500.0	200.0	V	193.0	6.6
7268.500000	---	43.70	54.00	10.30	500.0	200.0	V	266.0	7.1

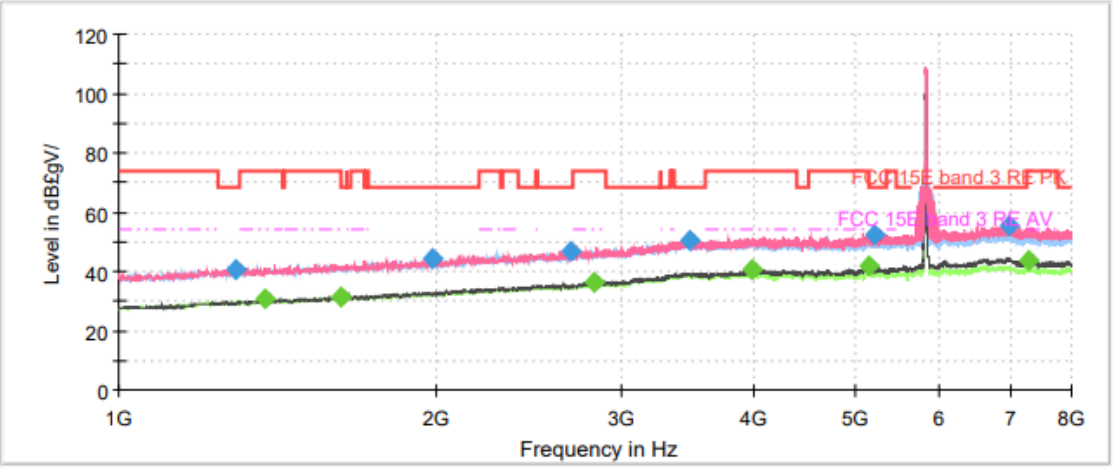
Wi-Fi 5GHz_a CH157_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1267.750000	41.40	---	68.20	26.80	500.0	200.0	V	348.0	-8.5
1376.250000	---	30.26	54.00	23.74	500.0	200.0	V	226.0	-7.7
1580.125000	---	31.74	54.00	22.26	500.0	200.0	H	174.0	-6.6
1910.000000	44.08	---	68.20	24.12	500.0	200.0	V	334.0	-4.9
2408.750000	47.04	---	68.20	21.16	500.0	200.0	V	274.0	-2.5
2810.375000	---	36.14	54.00	17.86	500.0	200.0	V	0.0	-1.2
3461.375000	51.07	---	68.20	17.13	500.0	200.0	V	260.0	1.6
3998.625000	---	40.47	54.00	13.53	500.0	200.0	V	235.0	3.2
5113.375000	---	41.55	54.00	12.45	500.0	200.0	V	334.0	5.1
5528.125000	53.08	---	68.20	15.12	500.0	200.0	V	311.0	5.4
6981.500000	55.31	---	68.20	12.89	500.0	200.0	V	359.0	7.1
7314.000000	---	43.85	54.00	10.15	500.0	200.0	V	251.0	7.0

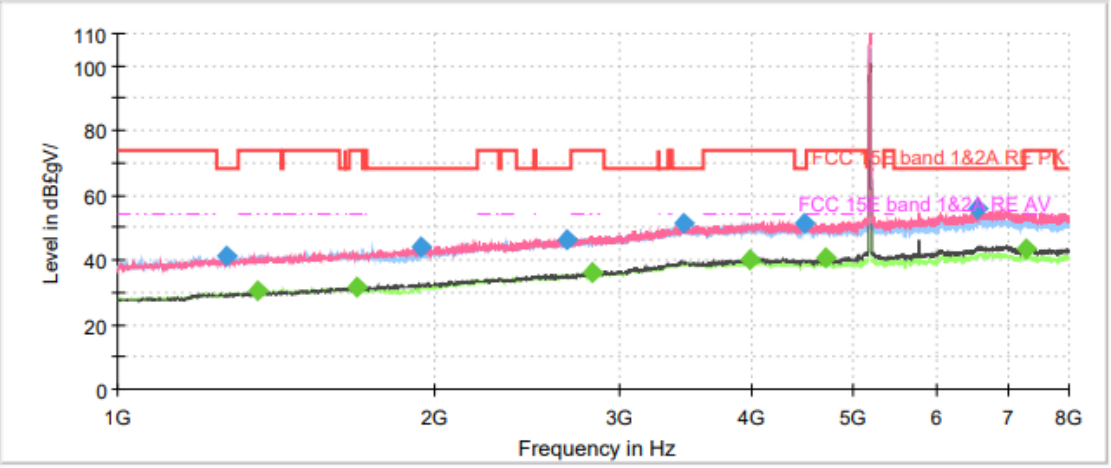
Wi-Fi 5GHz_a CH165_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1288.750000	40.64	---	68.20	27.56	500.0	200.0	H	190.0	-8.3
1376.250000	---	30.52	54.00	23.48	500.0	200.0	V	191.0	-7.7
1620.375000	---	31.57	54.00	22.43	500.0	200.0	H	172.0	-6.3
1981.750000	44.18	---	68.20	24.02	500.0	200.0	V	183.0	-4.7
2676.500000	47.06	---	68.20	21.14	500.0	200.0	V	2.0	-1.8
2816.500000	---	36.38	54.00	17.62	500.0	200.0	V	2.0	-1.2
3473.625000	50.69	---	68.20	17.51	500.0	200.0	V	20.0	1.7
3983.750000	---	40.42	54.00	13.58	500.0	200.0	V	48.0	3.2
5146.625000	---	41.64	54.00	12.36	500.0	200.0	V	85.0	5.0
5209.625000	52.05	---	68.20	16.15	500.0	200.0	V	95.0	5.3
6967.500000	55.51	---	68.20	12.69	500.0	200.0	V	29.0	7.1
7296.500000	---	43.65	54.00	10.35	500.0	200.0	V	85.0	7.0

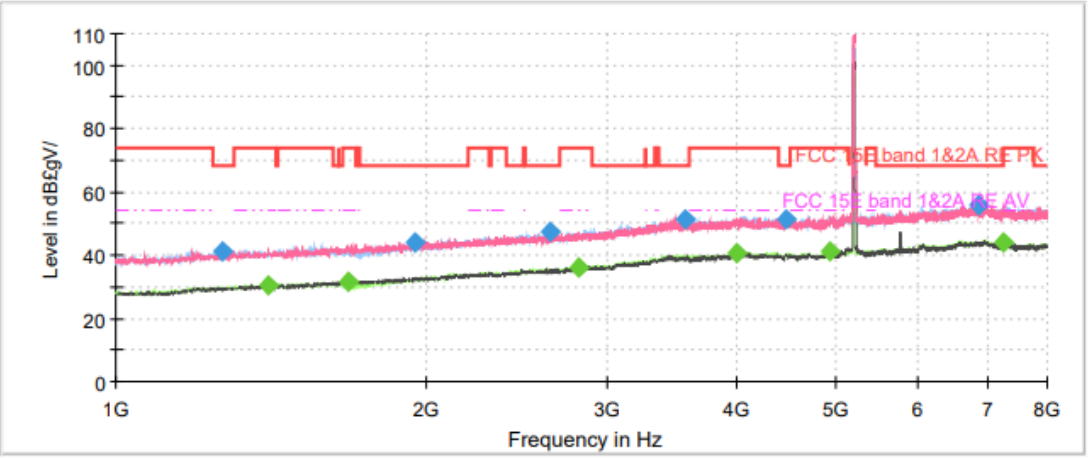
Wi-Fi 5GHz_n20 CH36_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1267.750000	41.11	---	68.20	27.09	500.0	200.0	V	335.0	-8.5
1358.750000	---	30.25	54.00	23.75	500.0	200.0	H	309.0	-7.8
1686.000000	---	31.35	54.00	22.65	500.0	200.0	V	335.0	-6.0
1944.125000	43.87	---	68.20	24.33	500.0	200.0	V	317.0	-4.7
2673.000000	46.53	---	68.20	21.67	500.0	200.0	H	97.0	-1.8
2816.500000	---	36.10	54.00	17.90	500.0	200.0	V	331.0	-1.2
3443.000000	51.11	---	68.20	17.09	500.0	200.0	V	253.0	1.5
3987.250000	---	40.32	54.00	13.68	500.0	200.0	V	358.0	3.2
4490.375000	51.55	---	68.20	16.65	500.0	200.0	V	331.0	3.8
4700.375000	---	40.44	54.00	13.56	500.0	200.0	V	294.0	4.4
6564.125000	55.72	---	68.20	12.48	500.0	200.0	V	344.0	6.5
7287.750000	---	43.61	54.00	10.39	500.0	200.0	V	298.0	7.0

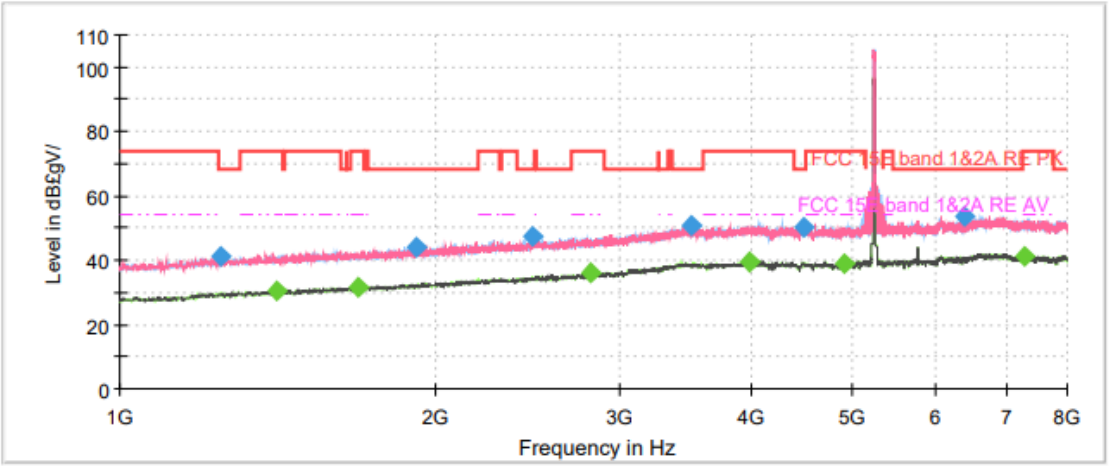
Wi-Fi 5GHz_n20 CH40_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1268.625000	41.21	---	68.20	26.99	500.0	200.0	H	95.0	-8.5
1405.125000	---	30.70	54.00	23.30	500.0	200.0	H	81.0	-7.6
1679.000000	---	31.43	54.00	22.57	500.0	200.0	V	339.0	-6.0
1951.125000	44.27	---	68.20	23.93	500.0	200.0	H	76.0	-4.7
2639.750000	47.17	---	68.20	21.03	500.0	200.0	V	339.0	-2.0
2813.875000	---	36.38	54.00	17.62	500.0	200.0	H	112.0	-1.2
3568.125000	51.51	---	68.20	16.69	500.0	200.0	H	0.0	1.7
3999.500000	---	40.63	54.00	13.37	500.0	200.0	V	307.0	3.2
4470.250000	51.43	---	68.20	16.77	500.0	200.0	H	27.0	3.7
4934.875000	---	41.11	54.00	12.89	500.0	200.0	H	53.0	4.6
6854.625000	55.84	---	68.20	12.36	500.0	200.0	H	0.0	6.8
7255.375000	---	43.87	54.00	10.13	500.0	200.0	H	31.0	7.1

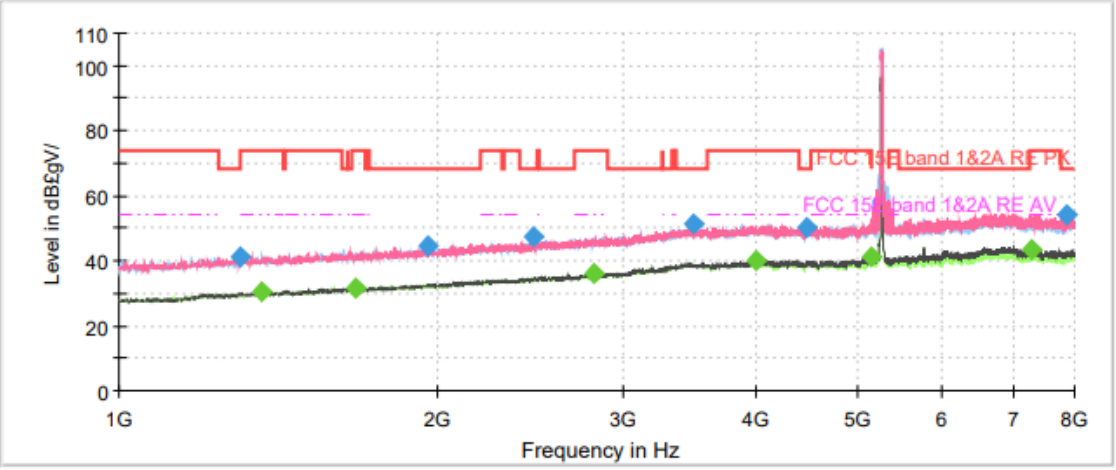
Wi-Fi 5GHz_n20 CH48_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1248.500000	41.14	---	68.20	27.06	500.0	200.0	H	57.0	-8.6
1413.875000	---	30.19	54.00	23.81	500.0	200.0	V	324.0	-7.5
1689.500000	---	31.64	54.00	22.36	500.0	200.0	H	71.0	-6.0
1917.875000	44.04	---	68.20	24.16	500.0	200.0	H	100.0	-4.9
2475.250000	47.62	---	68.20	20.58	500.0	200.0	H	0.0	-2.3
2810.375000	---	35.82	54.00	18.18	500.0	200.0	V	187.0	-1.2
3507.750000	50.78	---	68.20	17.42	500.0	200.0	V	302.0	1.8
3988.125000	---	39.58	54.00	14.42	500.0	200.0	H	244.0	3.2
4477.250000	50.17	---	68.20	18.03	500.0	200.0	V	117.0	3.7
4896.375000	---	39.09	54.00	14.91	500.0	200.0	V	91.0	4.5
6397.875000	53.70	---	68.20	14.50	500.0	200.0	V	281.0	5.8
7286.875000	---	41.19	54.00	12.81	500.0	200.0	V	46.0	7.0

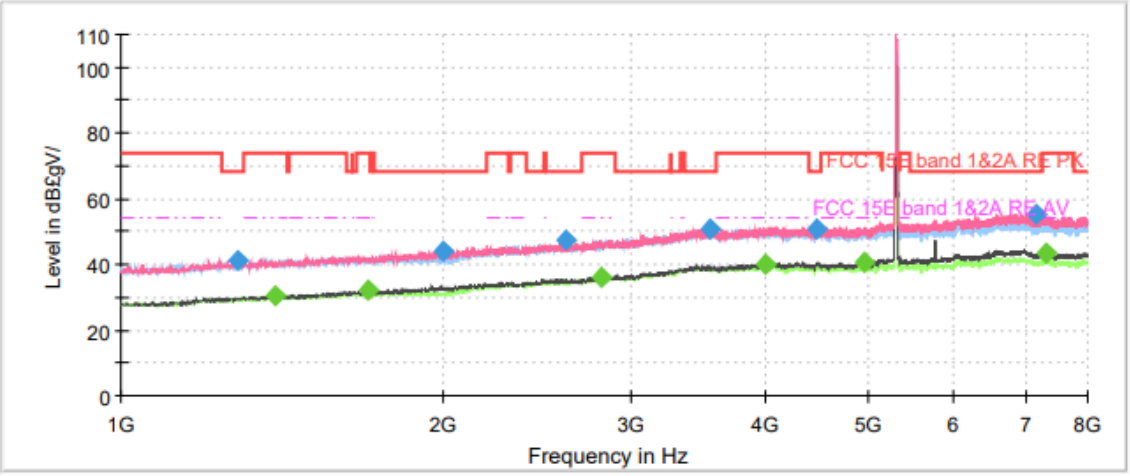
Wi-Fi 5GHz_n20 CH52_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1299.250000	41.24	---	68.20	26.96	500.0	200.0	V	74.0	-8.2
1366.625000	---	30.32	54.00	23.69	500.0	200.0	H	220.0	-7.7
1671.125000	---	31.51	54.00	22.49	500.0	200.0	H	341.0	-6.1
1959.875000	44.34	---	68.20	23.86	500.0	200.0	V	128.0	-4.7
2461.250000	47.15	---	68.20	21.05	500.0	200.0	H	44.0	-2.3
2815.625000	---	36.08	54.00	17.92	500.0	200.0	V	3.0	-1.2
3498.125000	51.23	---	68.20	16.97	500.0	200.0	H	194.0	1.8
3993.375000	---	40.04	54.00	13.96	500.0	200.0	V	13.0	3.2
4469.375000	50.37	---	68.20	17.83	500.0	200.0	H	177.0	3.7
5144.875000	---	41.27	54.00	12.73	500.0	200.0	V	13.0	5.0
7282.500000	---	43.40	54.00	10.60	500.0	200.0	V	3.0	7.1
7864.375000	54.31	---	68.20	13.89	500.0	200.0	V	3.0	7.6

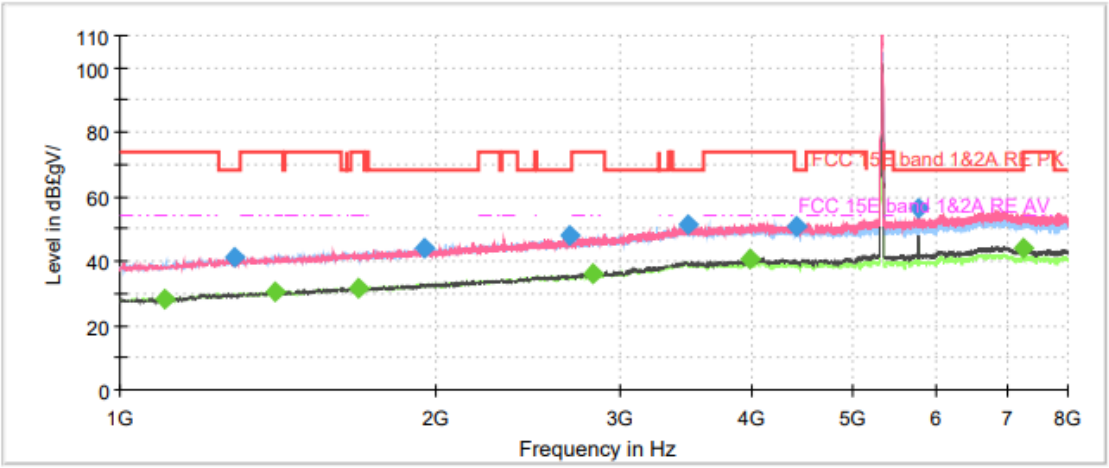
Wi-Fi 5GHz_n20 CH60_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1285.250000	41.28	---	68.20	26.92	500.0	200.0	V	311.0	-8.3
1393.750000	---	30.49	54.00	23.51	500.0	200.0	V	257.0	-7.6
1700.000000	---	32.02	54.00	21.98	500.0	200.0	V	333.0	-6.0
1999.250000	44.14	---	68.20	24.06	500.0	200.0	V	338.0	-4.5
2604.750000	47.17	---	68.20	21.03	500.0	200.0	V	0.0	-2.0
2806.000000	---	36.22	54.00	17.78	500.0	200.0	V	352.0	-1.2
3554.125000	50.79	---	68.20	17.41	500.0	200.0	V	347.0	1.7
3996.000000	---	40.32	54.00	13.68	500.0	200.0	V	347.0	3.2
4469.375000	50.69	---	68.20	17.51	500.0	200.0	V	356.0	3.7
4937.500000	---	40.69	54.00	13.31	500.0	200.0	V	320.0	4.6
7152.125000	55.49	---	68.20	12.71	500.0	200.0	V	329.0	7.1
7314.875000	---	43.49	54.00	10.51	500.0	200.0	V	329.0	7.0

Wi-Fi 5GHz_n20 CH64_1-8GHz



Final_Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1101.500000	---	28.10	54.00	25.90	500.0	200.0	H	0.0	-10.1
1285.250000	41.16	---	68.20	27.04	500.0	200.0	V	287.0	-8.3
1403.375000	---	30.62	54.00	23.38	500.0	200.0	V	341.0	-7.6
1687.750000	---	31.80	54.00	22.20	500.0	200.0	V	295.0	-6.0
1951.125000	44.23	---	68.20	23.97	500.0	200.0	H	37.0	-4.7
2677.375000	47.76	---	68.20	20.44	500.0	200.0	V	359.0	-1.8
2827.000000	---	36.34	54.00	17.66	500.0	200.0	V	314.0	-1.1
3481.500000	51.10	---	68.20	17.10	500.0	200.0	V	278.0	1.7
3988.125000	---	40.62	54.00	13.38	500.0	200.0	V	359.0	3.2
4408.125000	50.83	---	68.20	17.37	500.0	200.0	V	359.0	3.6
5760.000000	56.20	---	68.20	12.00	500.0	200.0	V	333.0	5.4
7261.500000	---	43.88	54.00	10.12	500.0	200.0	V	355.0	7.1