

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、 $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

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

§2、 $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, 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(uV/m)	Field strength(dBuV/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
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 modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

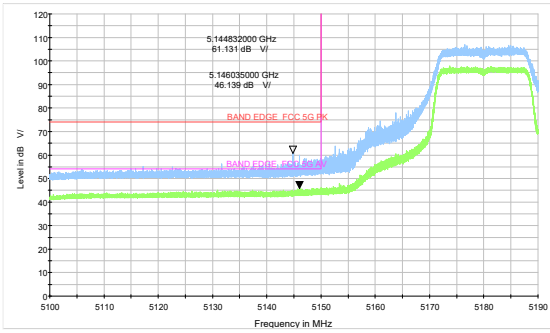
A font (Level in dB_{μV/m}) in the test plot =(level in dB μ V/m)

A font (Level in dB μ V) in the test plot =(level in dB μ V/m)

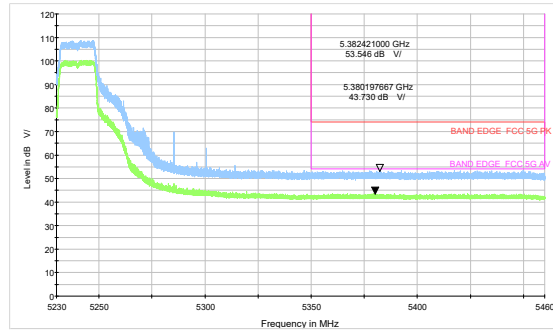
The signal beyond the limit is carrier.

U-NII-1

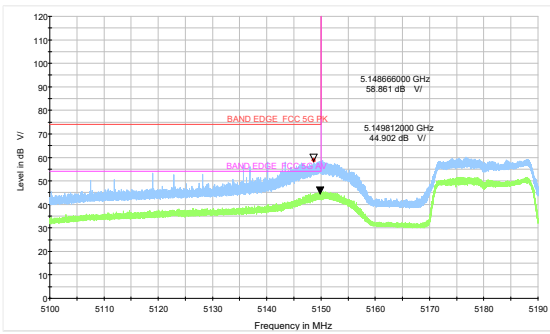
802.11a-Channel 36: Peak + Average



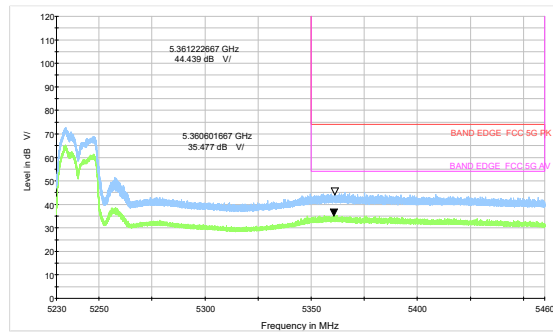
802.11a-Channel 48: Peak + Average



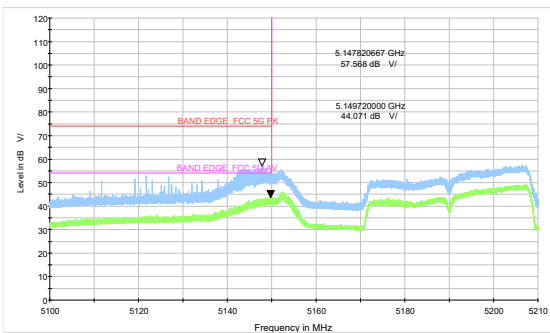
802.11ac VHT20 -Channel 36: Peak + Average



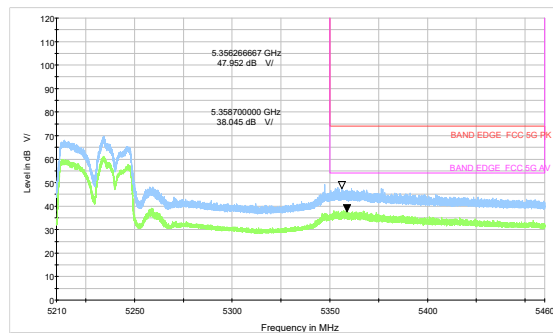
802.11ac VHT20 -Channel 48: Peak + Average



802.11ac VHT40-Channel 38: Peak + Average

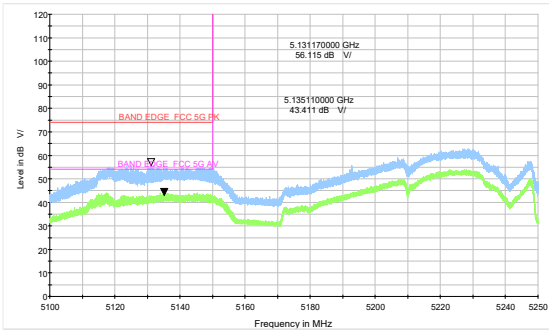


802.11ac VHT40-Channel 46: Peak + Average



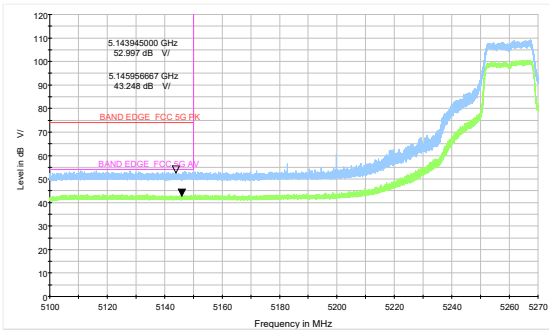


802.11ac VHT80 –Channel 42: Peak + Average

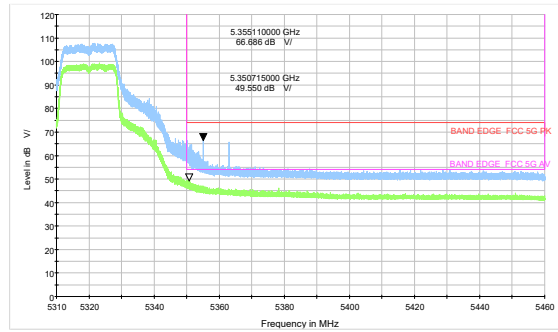


U-NII-2A

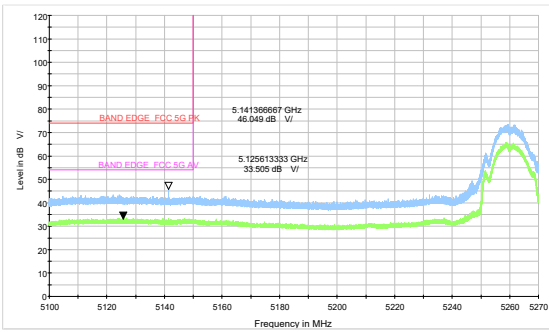
802.11a-Channel 52: Peak + Average



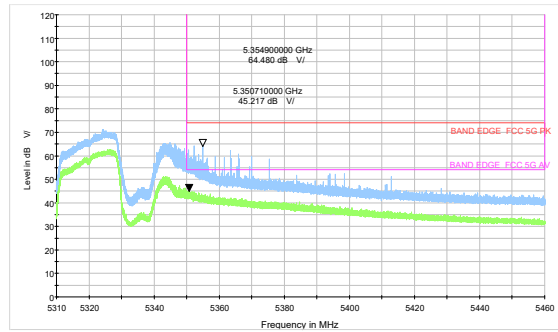
802.11a-Channel 64: Peak + Average



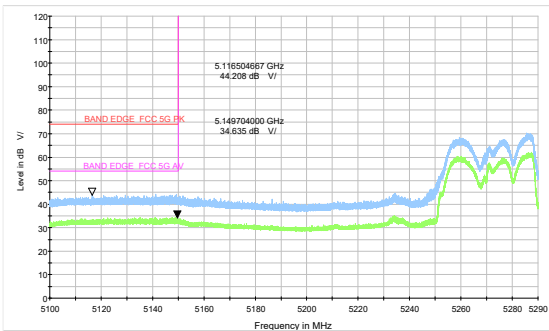
802.11ac VHT20 -Channel 52: Peak + Average



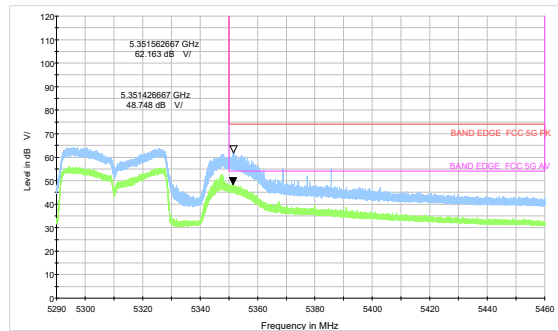
802.11ac VHT20 -Channel 64: Peak + Average



802.11ac VHT40-Channel 54: Peak + Average

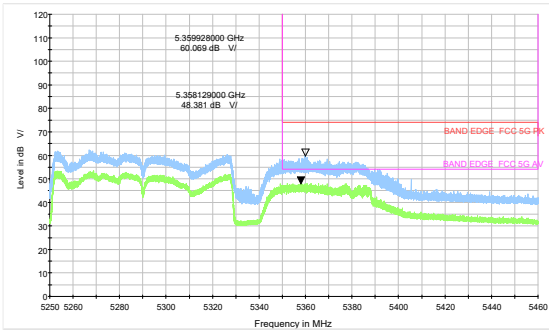


802.11ac VHT40-Channel 62: Peak + Average



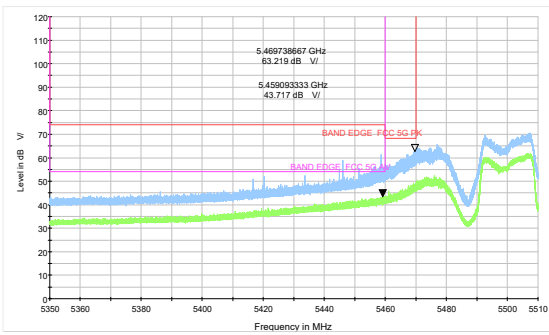


802.11ac VHT80 –Channel 58: Peak + Average

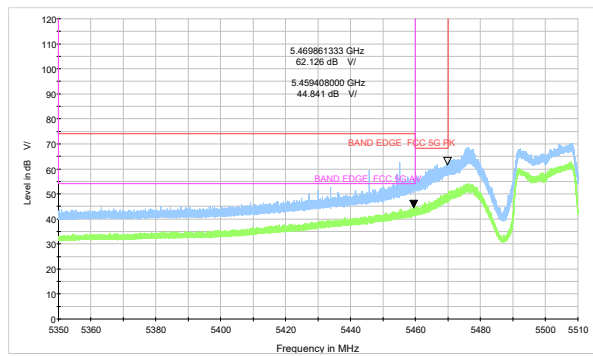


U-NII-2C

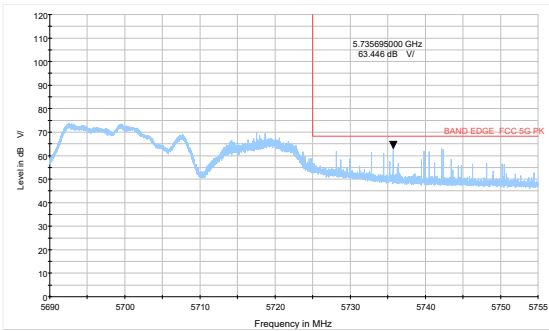
802.11a-Channel 100: Peak + Average



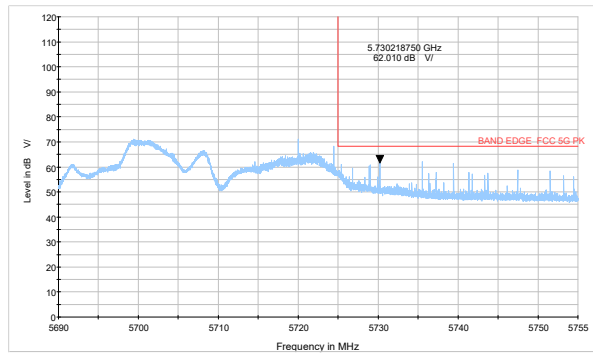
802.11ac VHT20 -Channel 100: Peak + Average



802.11a-Channel 140: Peak

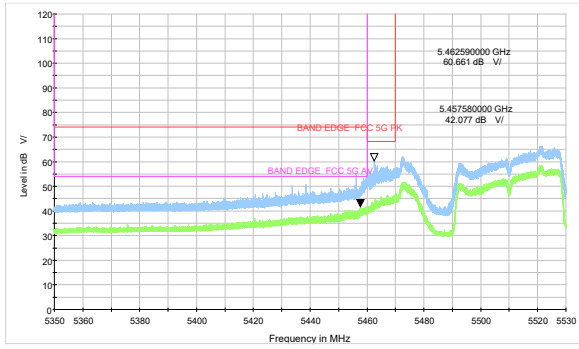


802.11ac VHT20 -Channel 140: Peak

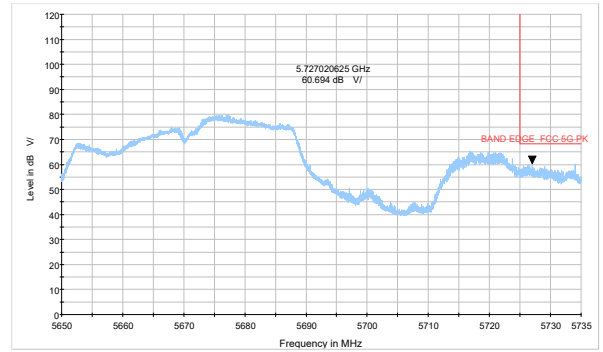




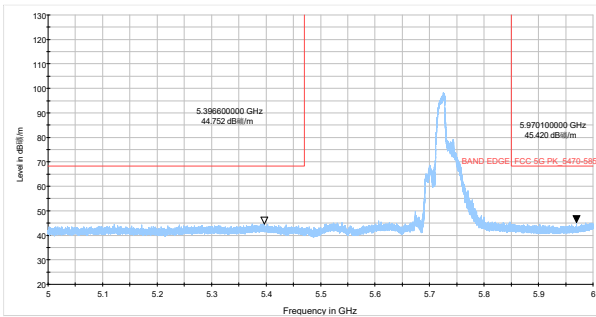
802.11ac VHT40-Channel 102: Peak + Average



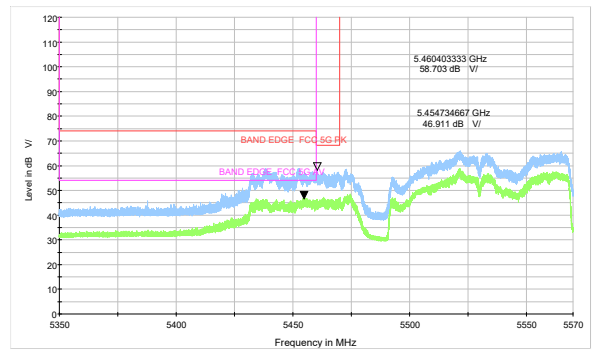
802.11ac VHT40-Channel 134: Peak + Average



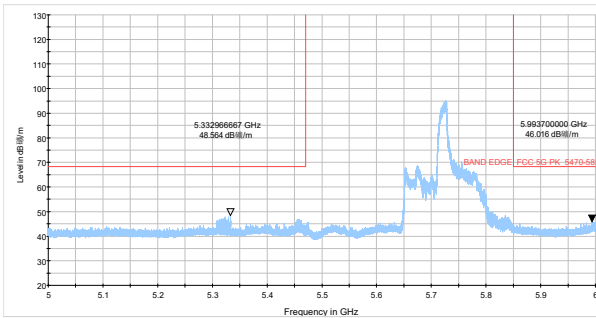
802.11ac VHT40-Channel 142: Peak



802.11ac VHT80 -Channel 106: Peak + Average



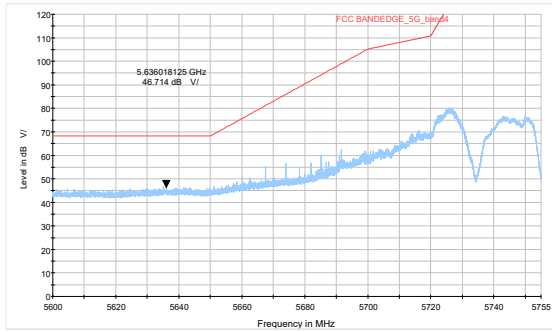
802.11ac VHT80 -Channel 138: Peak



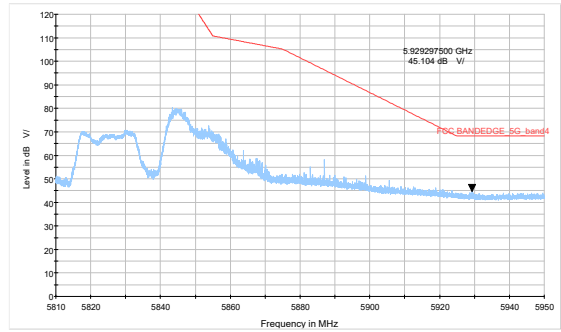


U-NII-3

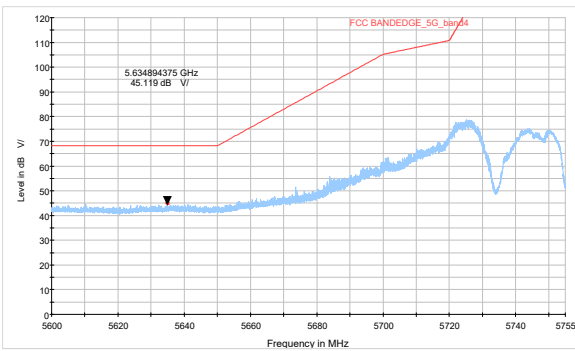
802.11a-Channel 149: Peak



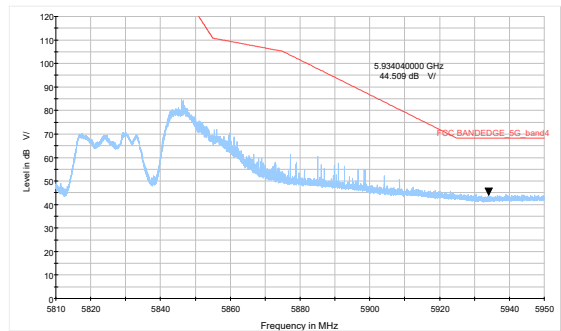
802.11a-Channel 165: Peak



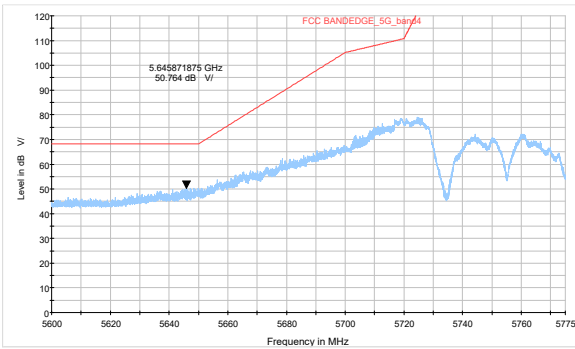
802.11ac VHT20-Channel 149: Peak



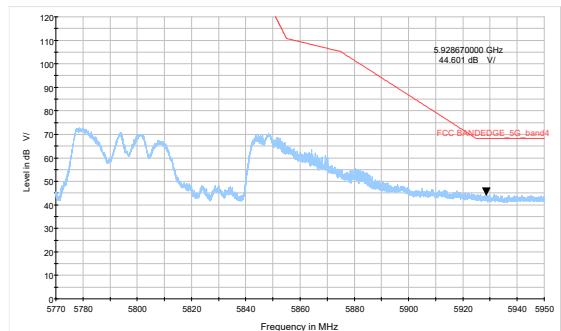
802.11ac VHT20-Channel 165: Peak



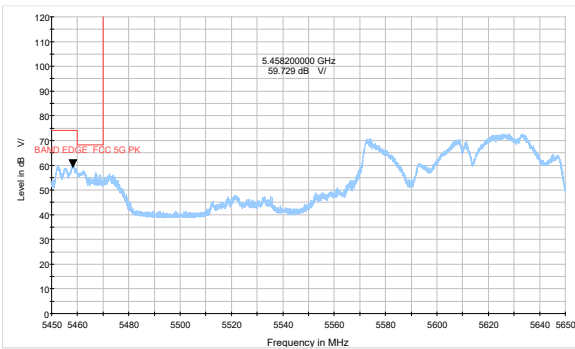
802.11ac VHT40-Channel 151: Peak



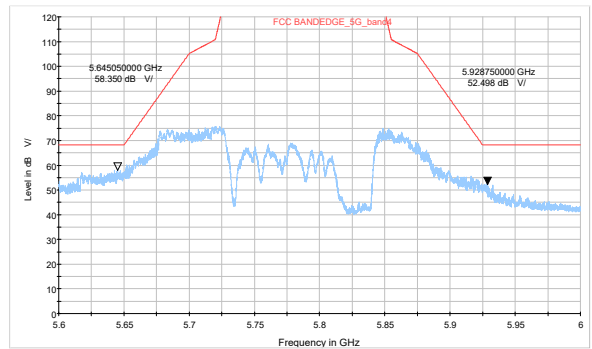
802.11ac VHT40-Channel 159: Peak



802.11ac VHT80- Channel 122: Peak



802.11ac VHT80- Channel 155: Peak





Result of RE

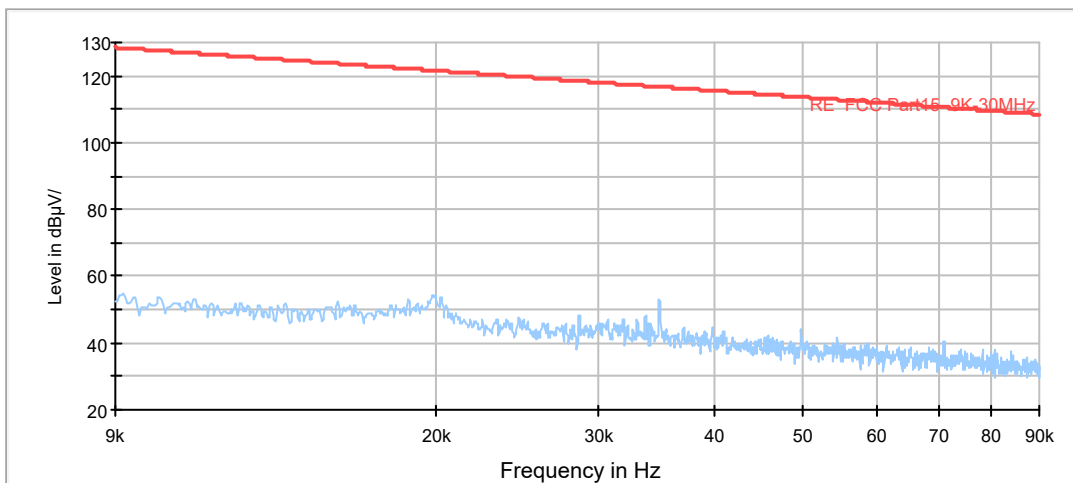
Test result

A font (Level in dB μ V/)in the test plot =(level in dB μ V/m)

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11a, Channel 64 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

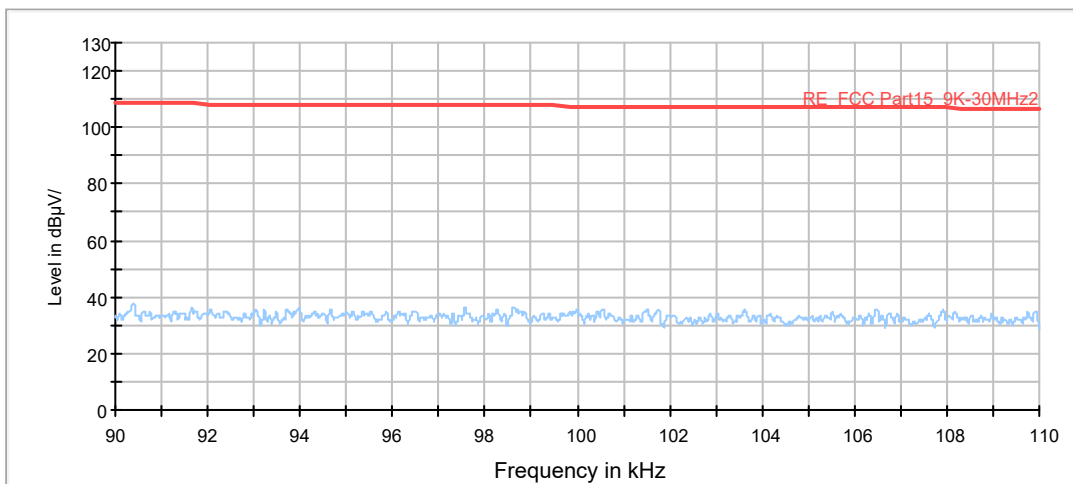
Continuous TX mode:

FCC RE 9K-90KHz AV



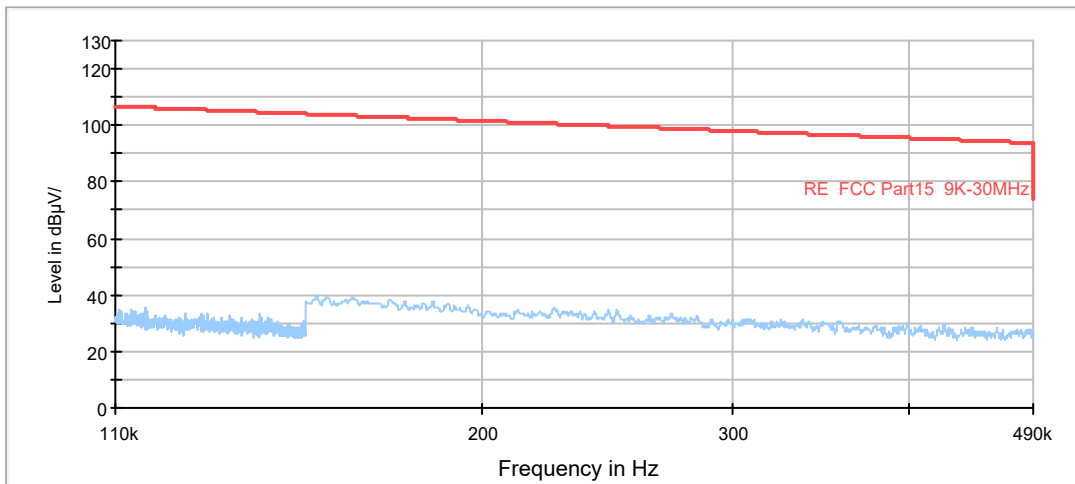
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



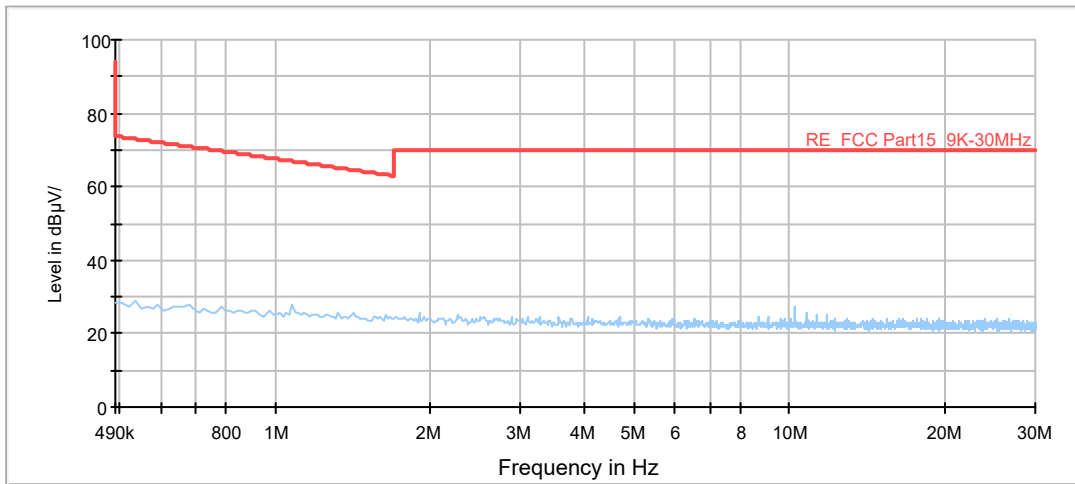
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV

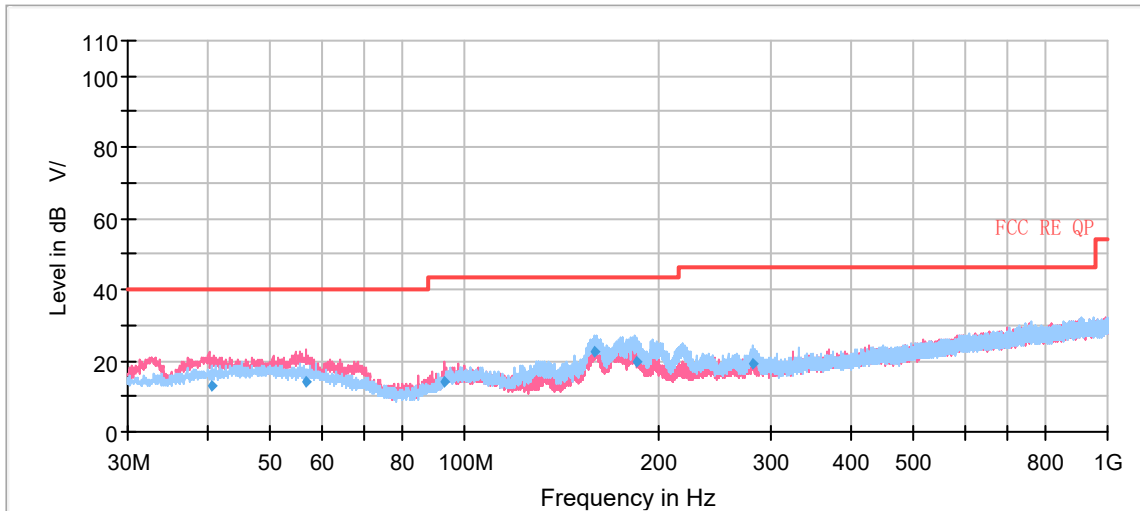


Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz



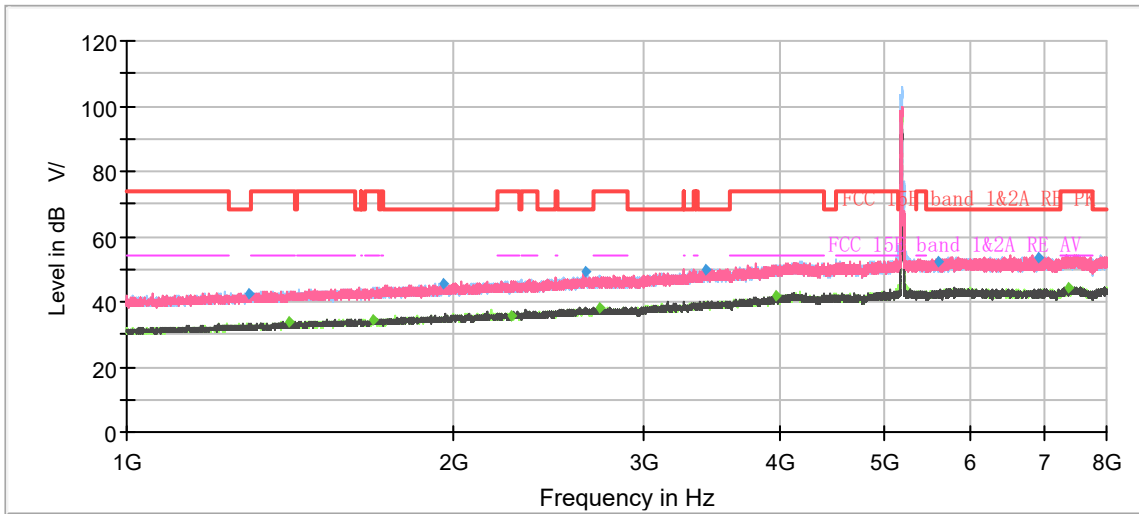
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.600333	12.86	185.0	V	206.0	20	27.14	40.00
56.819667	14.38	100.0	V	41.0	20	25.62	40.00
93.381000	14.07	100.0	V	161.0	17	29.43	43.50
159.642333	22.77	175.0	H	222.0	15	20.73	43.50
184.759333	19.65	184.0	H	65.0	17	23.85	43.50
281.521000	19.00	109.0	H	68.0	20	27.00	46.00

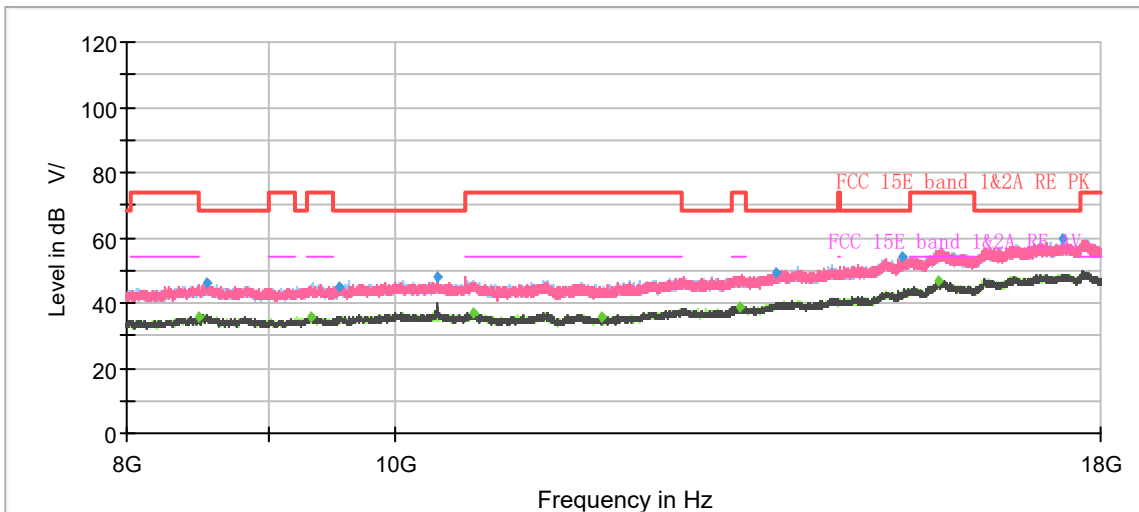
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 2. Margin = Limit – Quasi-Peak



802.11a CH36



Radiates Emission from 1GHz to 8GHz



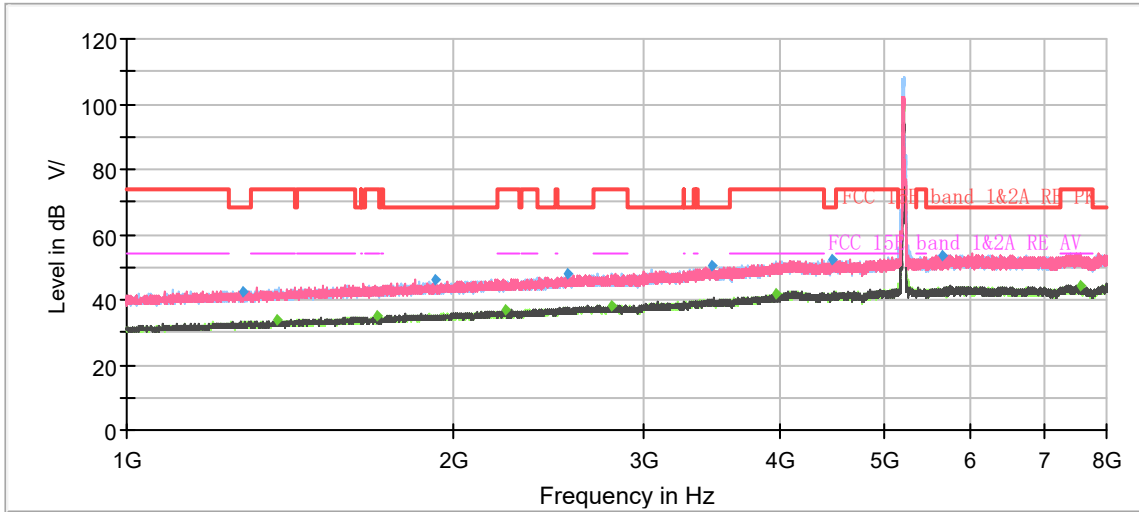
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



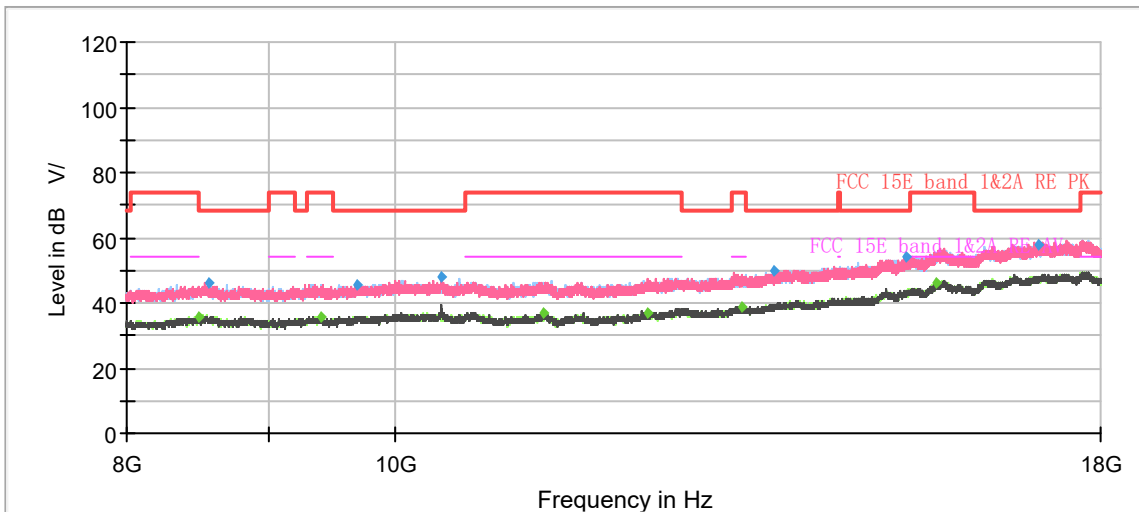
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1294.933333	42.73	---	68.20	25.47	100.0	H	68.0	-7
1414.166667	---	33.78	54.00	20.22	100.0	H	174.0	-6
1686.233333	---	34.67	54.00	19.33	100.0	V	233.0	-5
1958.300000	45.77	---	68.20	22.43	200.0	H	270.0	-3
2258.133333	---	35.45	54.00	18.55	200.0	H	209.0	-2
2652.466667	48.98	---	68.20	19.22	200.0	H	170.0	0
2725.966667	---	38.02	54.00	15.98	200.0	H	255.0	1
3412.200000	50.13	---	68.20	18.07	100.0	V	233.0	4
3962.633333	---	41.85	54.00	12.15	100.0	H	196.0	6
5599.233333	52.54	---	68.20	15.66	200.0	V	21.0	10
6918.033333	53.76	---	68.20	14.44	200.0	H	86.0	11
7371.400000	---	44.37	54.00	9.63	200.0	H	209.0	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH40



Radiates Emission from 1GHz to 8GHz



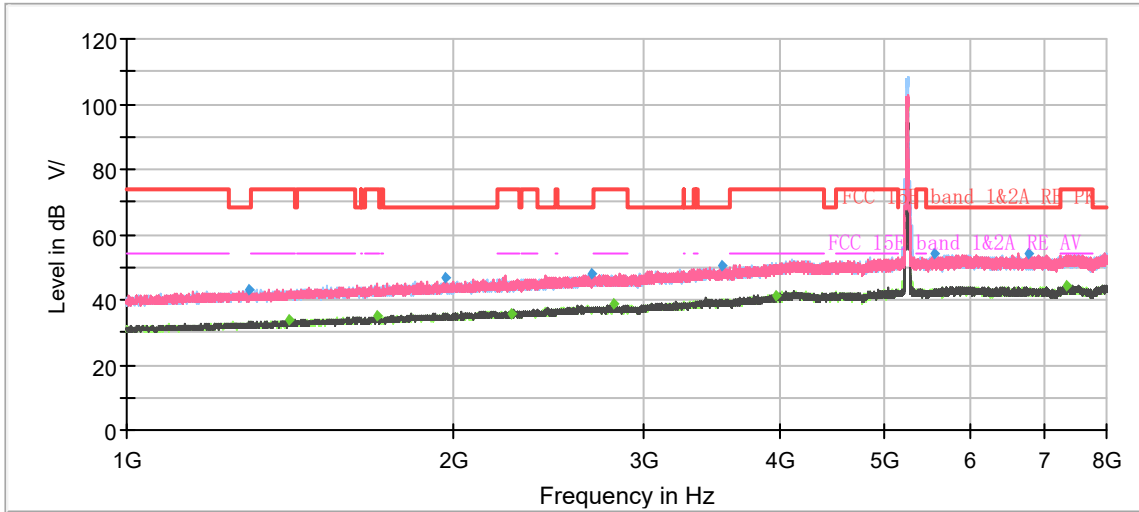
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



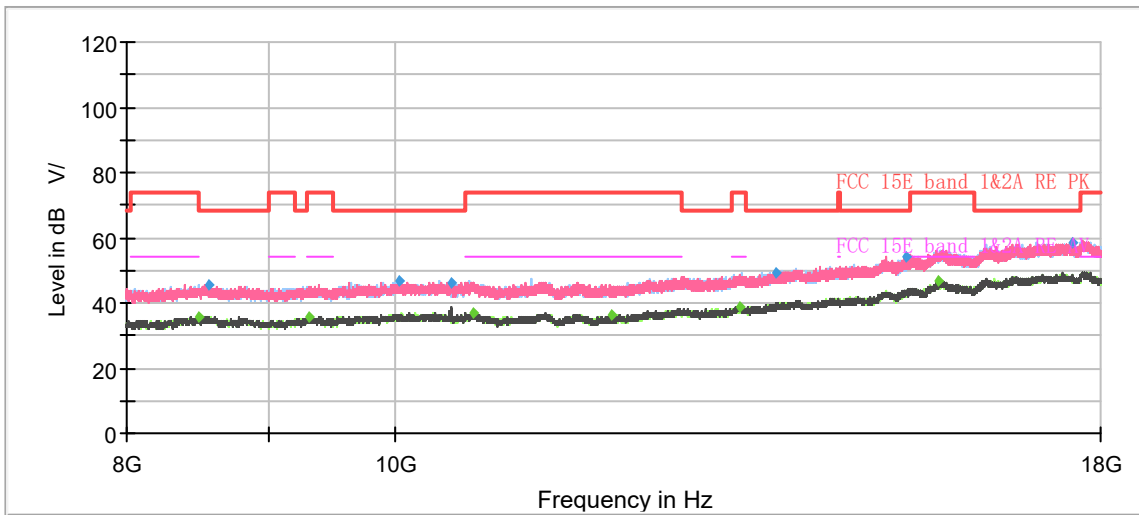
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1281.866667	42.44	---	68.20	25.76	100.0	V	261.0	-7
1377.533333	---	33.74	54.00	20.26	100.0	H	173.0	-6
1700.233333	---	34.78	54.00	19.22	200.0	H	263.0	-5
1921.900000	46.14	---	68.20	22.06	100.0	V	145.0	-3
2238.066667	---	36.88	54.00	17.12	200.0	V	85.0	-2
2550.500000	48.21	---	68.20	19.99	200.0	V	77.0	0
2796.200000	---	38.05	54.00	15.95	200.0	H	330.0	1
3458.866667	50.16	---	68.20	18.04	200.0	H	164.0	4
3957.733333	---	41.69	54.00	12.31	100.0	V	224.0	6
4469.433333	52.21	---	68.20	15.99	200.0	V	145.0	7
5654.533333	53.60	---	68.20	14.60	200.0	H	263.0	10
7566.000000	---	44.39	54.00	9.61	200.0	H	308.0	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH48



Radiates Emission from 1GHz to 8GHz



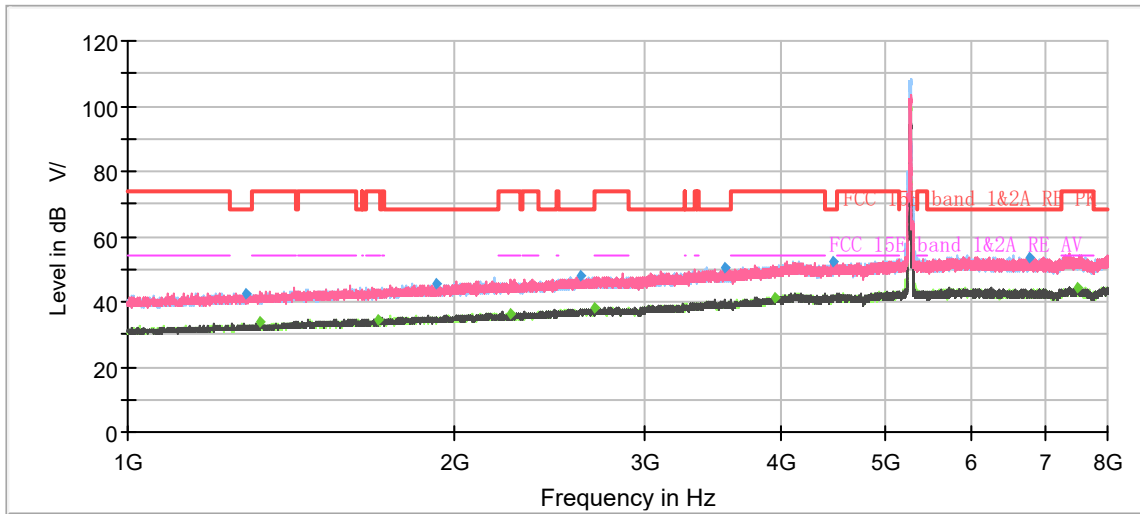
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



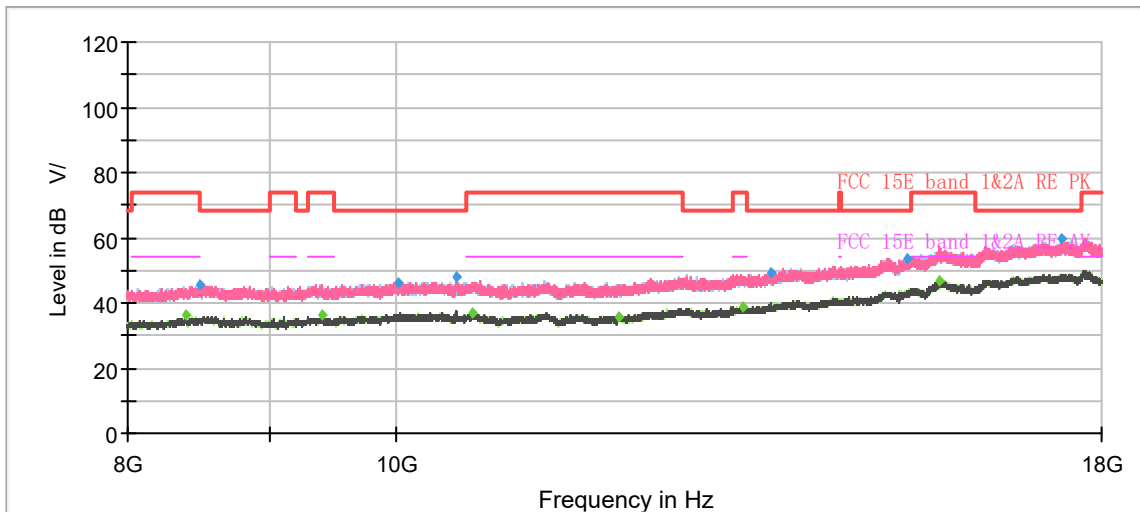
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1297.500000	43.12	---	68.20	25.08	200.0	V	30.0	-7
1410.200000	---	33.69	54.00	20.31	200.0	V	53.0	-6
1701.866667	---	34.79	54.00	19.21	100.0	V	102.0	-5
1964.133333	46.48	---	68.20	21.72	200.0	V	173.0	-3
2262.333333	---	35.84	54.00	18.16	200.0	V	128.0	-2
2680.000000	48.23	---	68.20	19.97	200.0	H	255.0	0
2812.300000	---	38.61	54.00	15.39	100.0	V	335.0	1
3536.566667	50.44	---	68.20	17.76	100.0	V	276.0	4
3970.333333	---	41.43	54.00	12.57	200.0	H	232.0	6
5554.900000	54.01	---	68.20	14.19	100.0	H	248.0	10
6786.200000	53.88	---	68.20	14.32	200.0	V	120.0	10
7354.133333	---	44.37	54.00	9.63	100.0	H	248.0	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH52



Radiates Emission from 1GHz to 8GHz



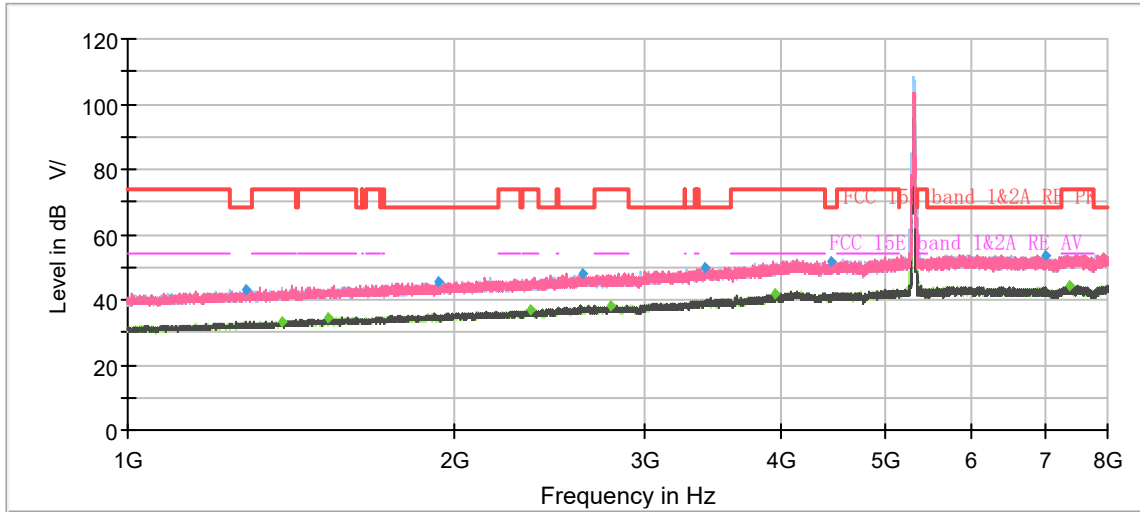
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



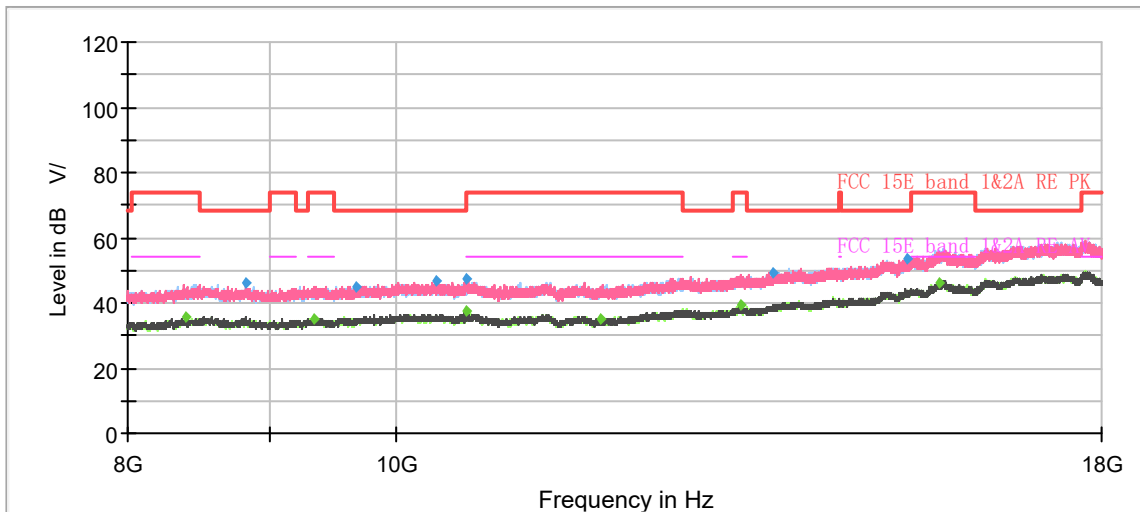
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1287.466667	42.31	---	68.20	25.89	200.0	V	31.0	-7
1322.000000	---	34.12	54.00	19.88	200.0	H	215.0	-7
1700.000000	---	34.61	54.00	19.39	100.0	H	74.0	-5
1924.000000	45.66	---	68.20	22.54	100.0	V	351.0	-3
2257.200000	---	36.06	54.00	17.94	100.0	V	255.0	-2
2612.566667	47.73	---	68.20	20.47	200.0	V	130.0	0
2690.266667	---	38.12	54.00	15.88	100.0	V	14.0	1
3549.166667	50.25	---	68.20	17.95	200.0	V	220.0	4
3941.633333	---	41.54	54.00	12.46	100.0	H	243.0	6
4469.666667	52.46	---	68.20	15.74	200.0	H	161.0	7
6782.000000	53.49	---	68.20	14.71	200.0	V	113.0	10
7510.000000	---	44.55	54.00	9.45	200.0	V	84.0	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH60



Radiates Emission from 1GHz to 8GHz



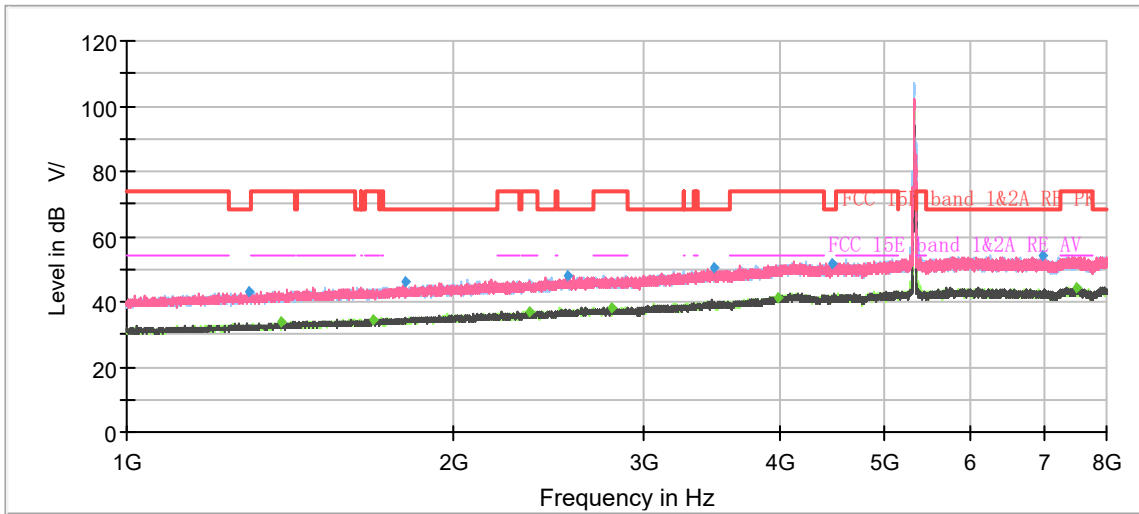
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



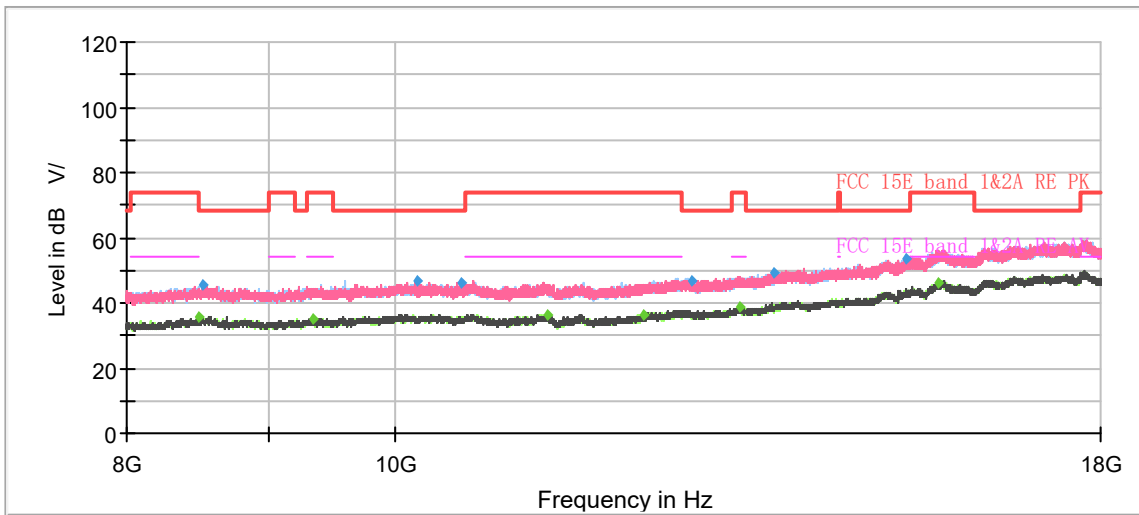
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1284.900000	43.22	---	68.20	24.98	100.0	V	217.0	-7
1387.566667	---	33.32	54.00	20.68	100.0	H	132.0	-6
1531.533333	---	34.60	54.00	19.40	200.0	V	250.0	-5
1935.433333	45.24	---	68.20	22.96	200.0	H	198.0	-3
2352.166667	---	36.64	54.00	17.36	100.0	H	93.0	-1
2627.266667	48.00	---	68.20	20.20	200.0	H	30.0	0
2782.666667	---	38.22	54.00	15.78	200.0	V	204.0	1
3405.200000	50.03	---	68.20	18.17	100.0	V	240.0	3
3947.466667	---	41.90	54.00	12.10	200.0	H	175.0	6
4439.566667	51.81	---	68.20	16.39	100.0	V	125.0	---
7008.566667	53.68	---	68.20	14.52	200.0	H	175.0	11
7378.400000	---	44.41	54.00	9.59	200.0	H	182.0	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH64



Radiates Emission from 1GHz to 8GHz



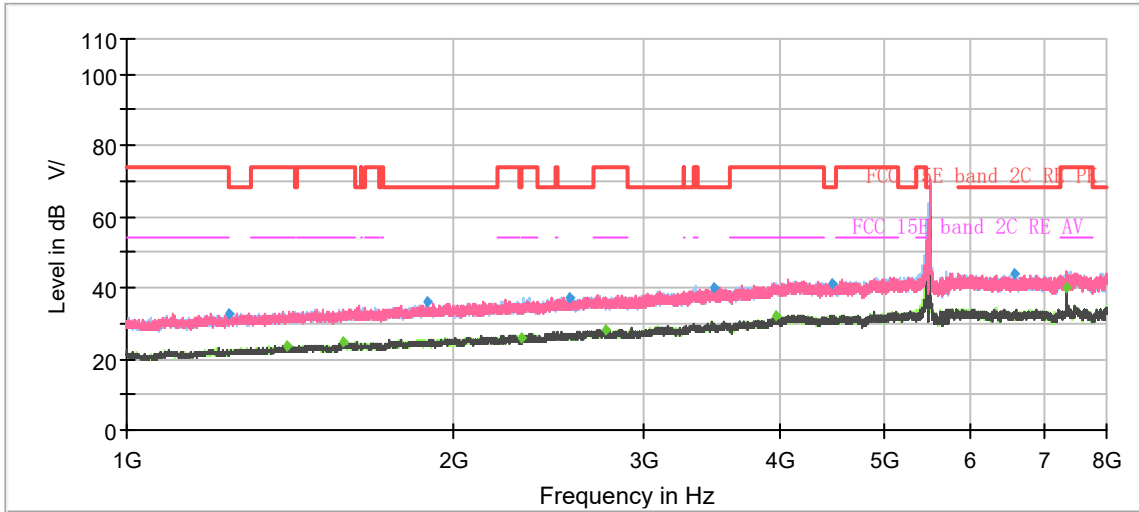
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



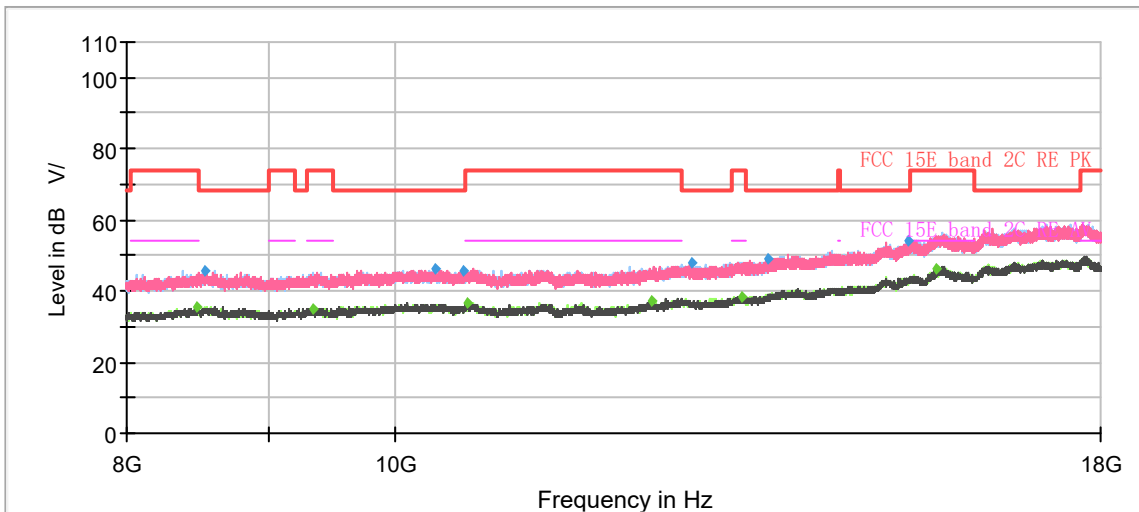
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1295.633333	43.31	---	68.20	24.89	100.0	V	225.0	-7
1386.633333	---	33.64	54.00	20.36	100.0	V	255.0	-6
1687.400000	---	34.69	54.00	19.31	200.0	V	169.0	-5
1803.133333	46.42	---	68.20	21.78	200.0	V	0.0	-4
2352.866667	---	37.21	54.00	16.79	100.0	V	31.0	-1
2549.566667	48.18	---	68.20	20.02	100.0	V	149.0	0
2795.033333	---	38.22	54.00	15.78	100.0	V	56.0	1
3482.200000	50.33	---	68.20	17.87	200.0	V	48.0	4
3982.233333	---	41.50	54.00	12.50	200.0	V	123.0	6
4474.333333	51.61	---	68.20	16.59	100.0	H	117.0	7
6975.433333	54.14	---	68.20	14.06	100.0	H	109.0	11
7519.333333	---	44.59	54.00	9.41	200.0	V	55.0	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH100



Radiates Emission from 1GHz to 8GHz



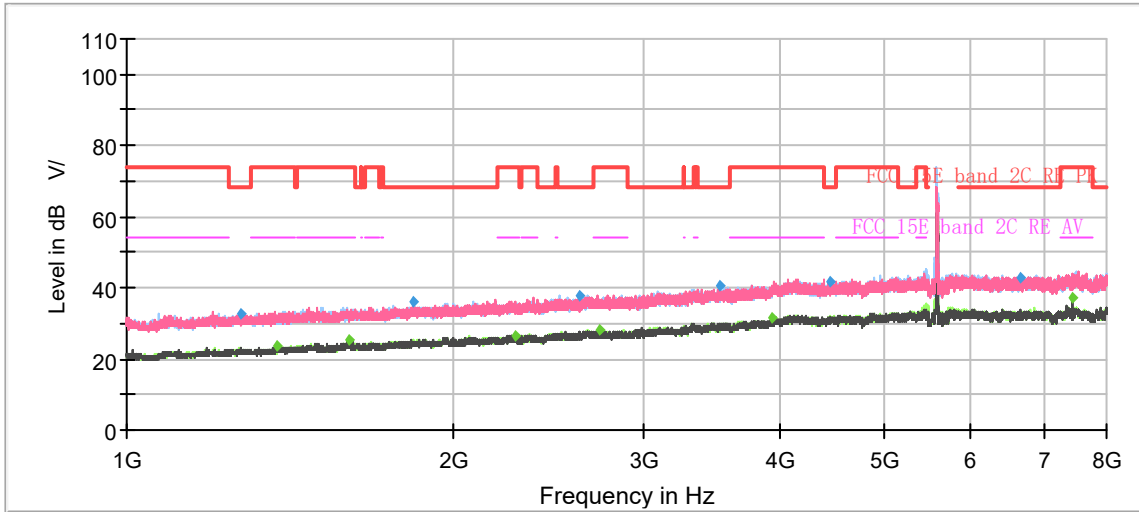
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



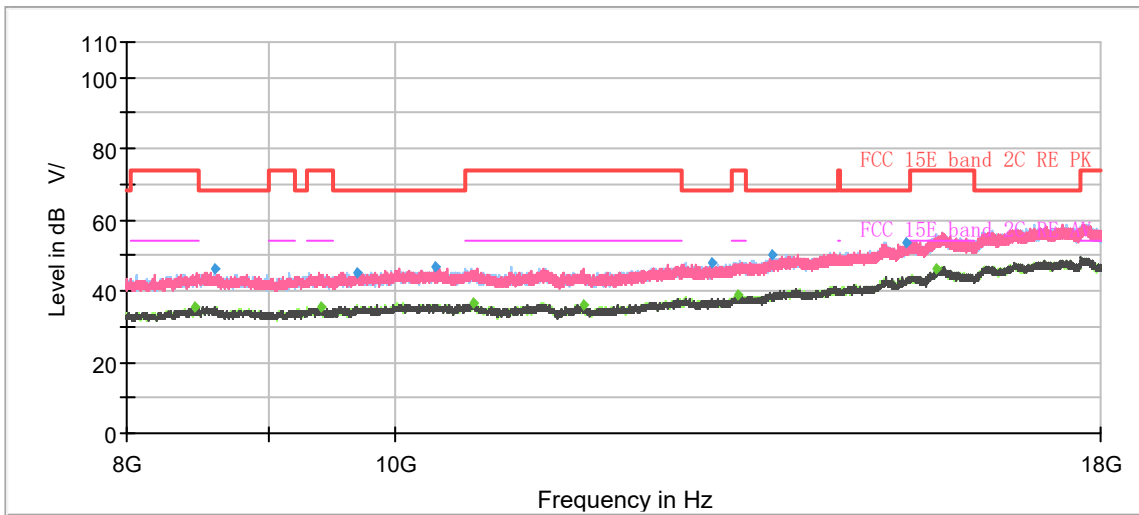
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1242.666667	32.80	---	68.20	35.40	100.0	H	121.0	-17
1408.100000	---	23.80	54.00	30.20	100.0	V	359.0	-16
1582.400000	---	24.67	54.00	29.33	200.0	H	279.0	-15
1888.533333	36.29	---	68.20	31.91	200.0	V	194.0	-14
2313.666667	---	25.97	54.00	28.03	100.0	H	74.0	-11
2554.466667	37.46	---	68.20	30.74	200.0	H	325.0	-10
2767.500000	---	28.25	54.00	25.75	200.0	V	34.0	-9
3480.566667	40.25	---	68.20	27.95	100.0	V	209.0	-6
3962.633333	---	32.20	54.00	21.80	100.0	H	220.0	-4
4466.166667	41.38	---	68.20	26.82	200.0	V	162.0	-3
6570.366667	43.85	---	68.20	24.35	200.0	V	56.0	0
7333.366667	---	39.91	54.00	14.09	100.0	V	101.0	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH116



Radiates Emission from 1GHz to 8GHz



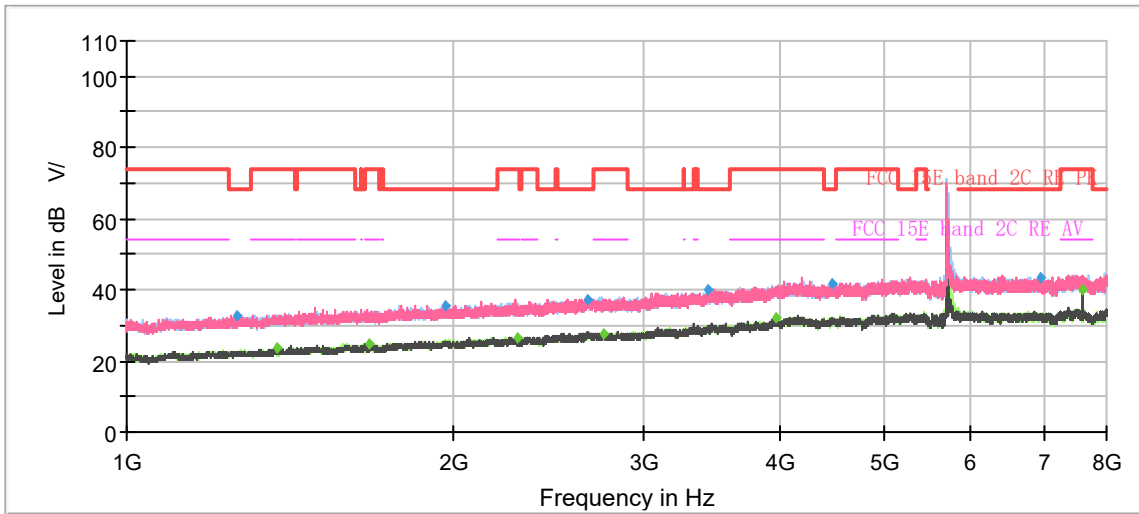
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



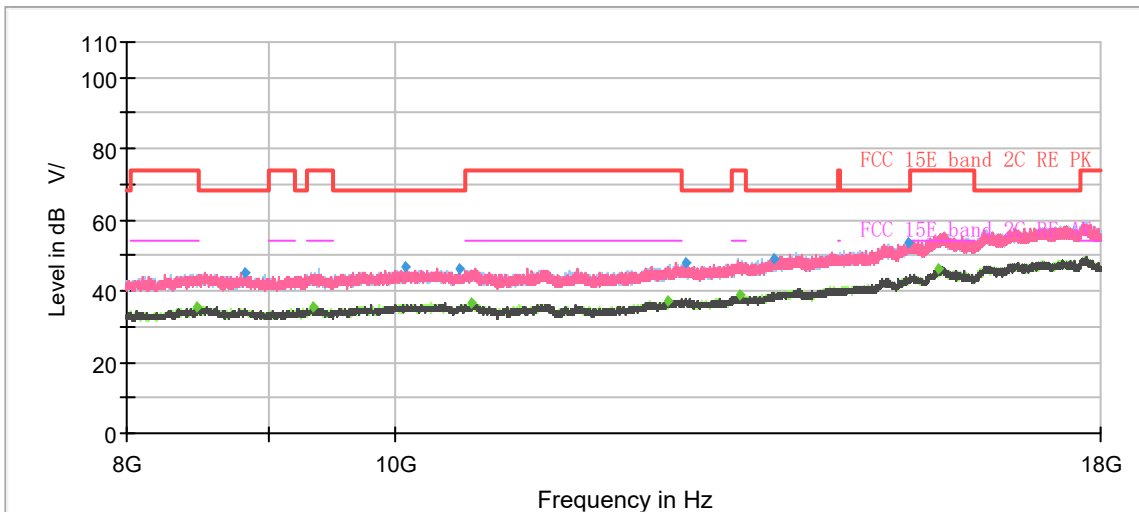
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1275.800000	32.75	---	68.20	35.45	100.0	H	150.0	-17
1377.766667	---	23.43	54.00	30.57	100.0	V	348.0	-16
1600.366667	---	25.11	54.00	28.89	100.0	H	165.0	-15
1838.833333	35.93	---	68.20	32.27	200.0	V	65.0	-14
2278.433333	---	26.73	54.00	27.27	200.0	V	359.0	-12
2611.633333	37.71	---	68.20	30.49	100.0	V	125.0	-10
2725.966667	---	28.25	54.00	25.75	200.0	H	0.0	-9
3524.200000	40.34	---	68.20	27.86	200.0	V	141.0	-6
3939.533333	---	31.76	54.00	22.24	200.0	H	308.0	-4
4439.333333	41.66	---	68.20	26.54	100.0	V	325.0	-3
6652.033333	43.03	---	68.20	25.17	200.0	H	0.0	0
7440.000000	---	37.15	54.00	16.85	100.0	V	125.0	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH140



Radiates Emission from 1GHz to 8GHz



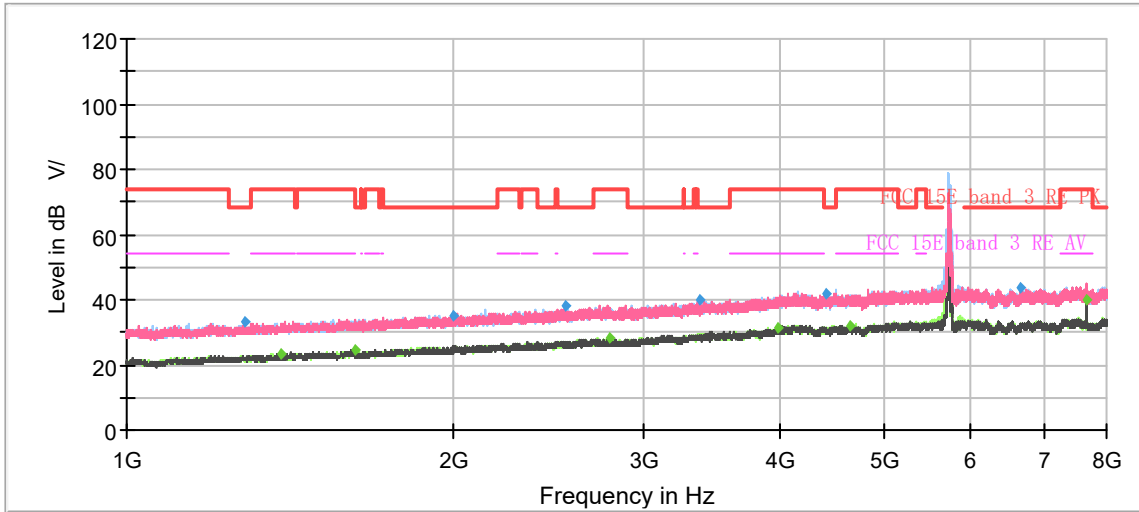
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



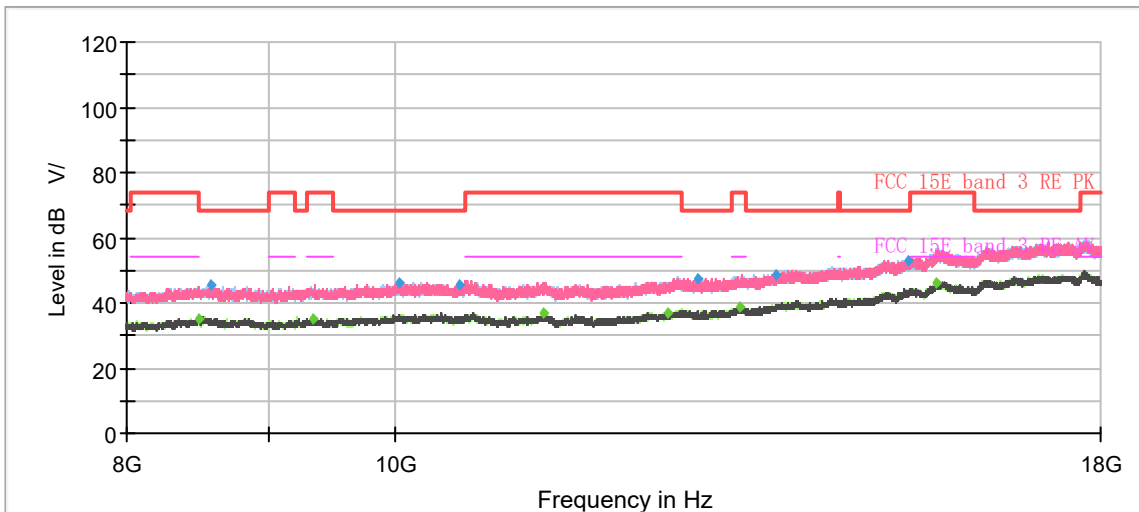
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1264.833333	32.87	---	68.20	35.33	100.0	V	167.0	-17
1377.066667	---	23.65	54.00	30.35	100.0	H	121.0	-16
1675.033333	---	24.81	54.00	29.19	200.0	H	243.0	-15
1965.533333	35.46	---	68.20	32.74	200.0	V	118.0	-13
2287.533333	---	26.57	54.00	27.43	200.0	H	281.0	-12
2664.366667	37.35	---	68.20	30.85	200.0	V	72.0	-10
2755.833333	---	27.91	54.00	26.09	100.0	H	121.0	-9
3430.166667	40.13	---	68.20	28.07	200.0	H	0.0	-6
3964.266667	---	32.23	54.00	21.77	100.0	V	159.0	-4
4458.466667	41.99	---	68.20	26.21	100.0	H	20.0	-3
6963.533333	43.47	---	68.20	24.73	100.0	V	227.0	1
7600.066667	---	39.81	54.00	14.19	100.0	V	120.0	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH149



Radiates Emission from 1GHz to 8GHz



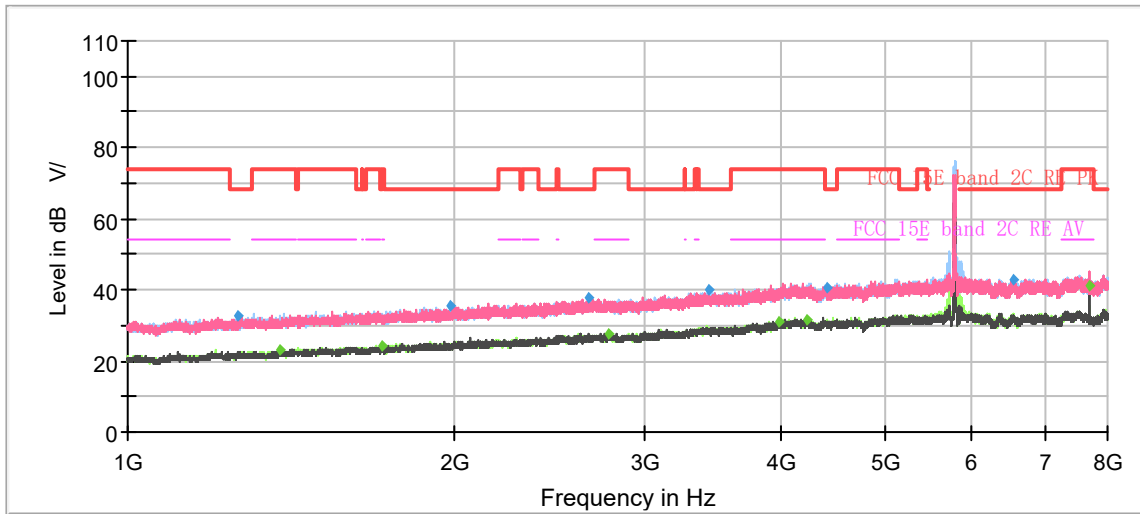
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



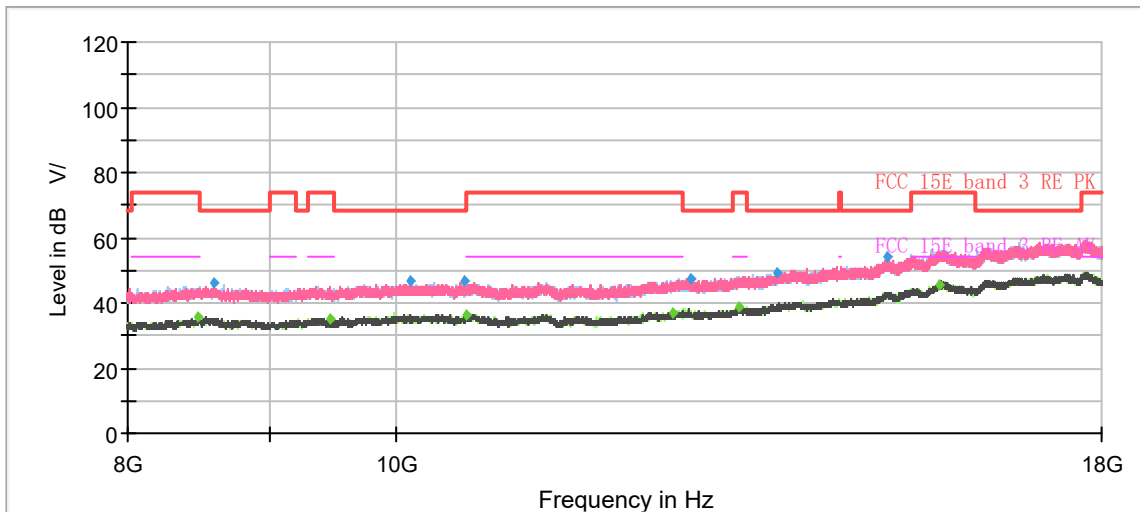
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1285.133333	32.94	---	68.20	35.26	200.0	H	3.0	-17
1388.500000	---	23.35	54.00	30.65	200.0	V	163.0	-16
1625.333333	---	24.40	54.00	29.60	200.0	H	345.0	-15
1996.566667	35.15	---	68.20	33.05	200.0	V	232.0	-13
2540.466667	38.12	---	68.20	30.08	100.0	H	356.0	-10
2792.466667	---	28.32	54.00	25.68	200.0	V	286.0	-9
3372.533333	39.85	---	68.20	28.35	200.0	V	86.0	-7
3975.000000	---	31.32	54.00	22.68	100.0	H	220.0	-4
4409.000000	41.69	---	68.20	26.51	200.0	V	54.0	-3
4642.800000	---	31.97	54.00	22.03	100.0	V	241.0	-3
6665.566667	43.63	---	68.20	24.57	100.0	V	55.0	0
7660.266667	---	40.05	54.00	13.95	100.0	V	101.0	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH157



Radiates Emission from 1GHz to 8GHz



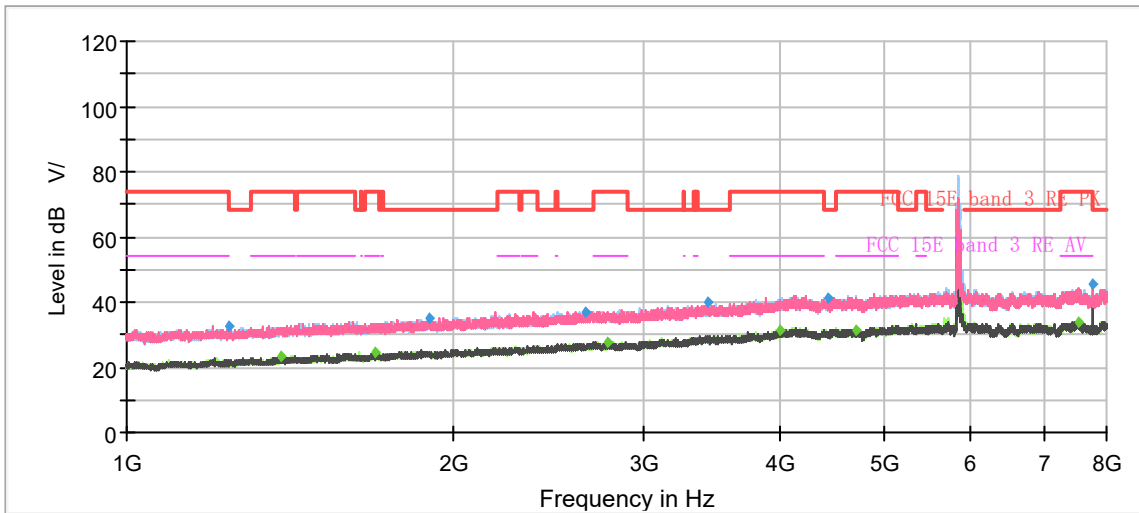
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



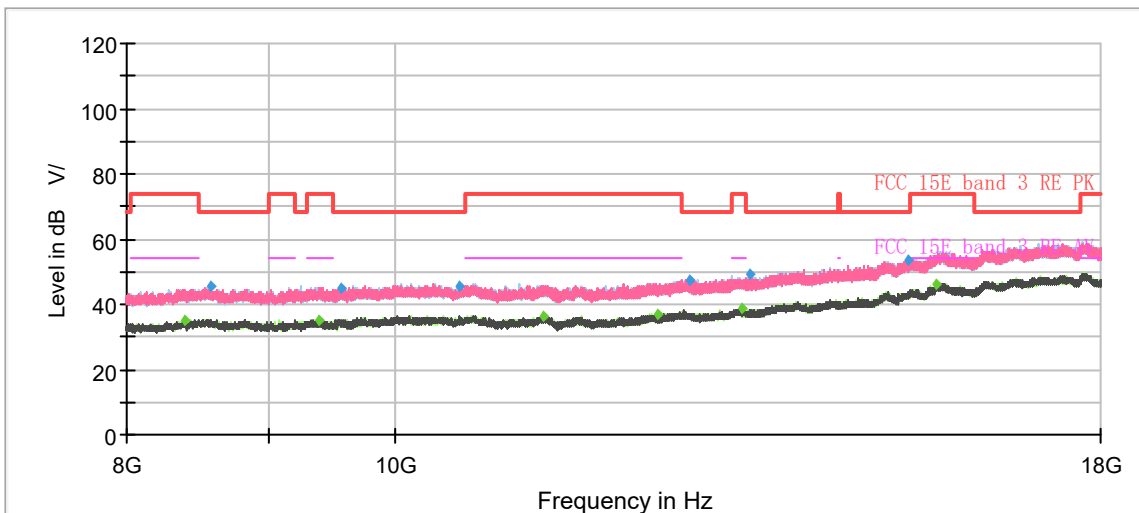
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1261.33	32.51	---	68.20	35.69	100.0	V	72.00	-17
1382.20	---	23.22	54.00	30.78	100.0	H	336.00	-16
1718.90	---	24.27	54.00	29.73	100.0	V	133.00	-15
1982.57	35.33	---	68.20	32.87	100.0	H	20.00	-13
2659.23	37.52	---	68.20	30.68	100.0	V	125.00	-10
2779.87	---	27.89	54.00	26.11	200.0	H	233.00	-9
3437.63	39.94	---	68.20	28.26	200.0	V	276.00	-6
3975.23	---	31.15	54.00	22.85	200.0	H	105.00	-4
4230.73	---	31.35	54.00	22.65	200.0	V	28.00	-3
4414.83	40.64	---	68.20	27.56	100.0	V	156.00	-3
6543.53	43.02	---	68.20	25.18	200.0	H	180.00	0
7713.47	---	41.35	54.00	12.65	100.0	V	102.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH165



Radiates Emission from 1GHz to 8GHz



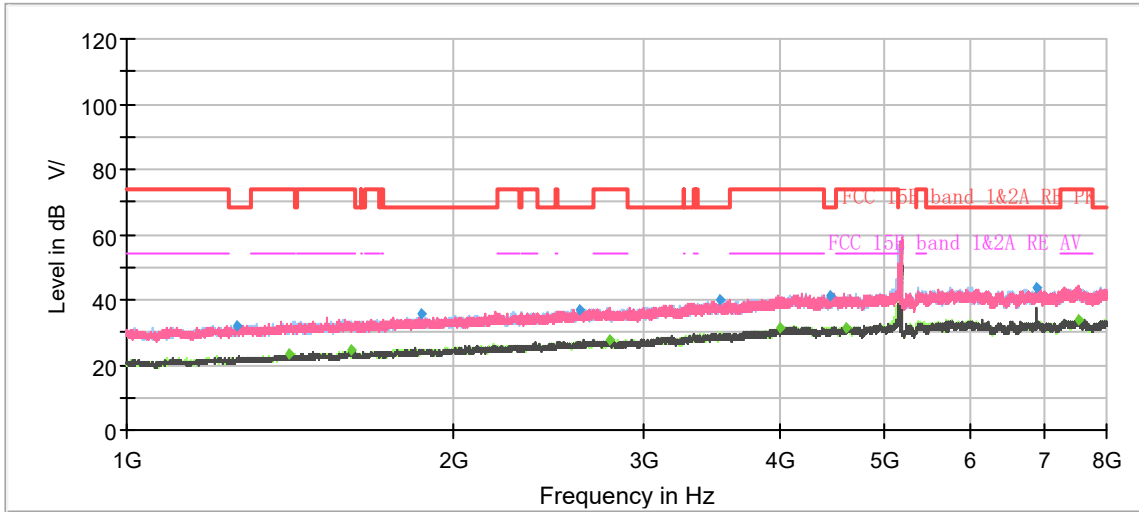
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



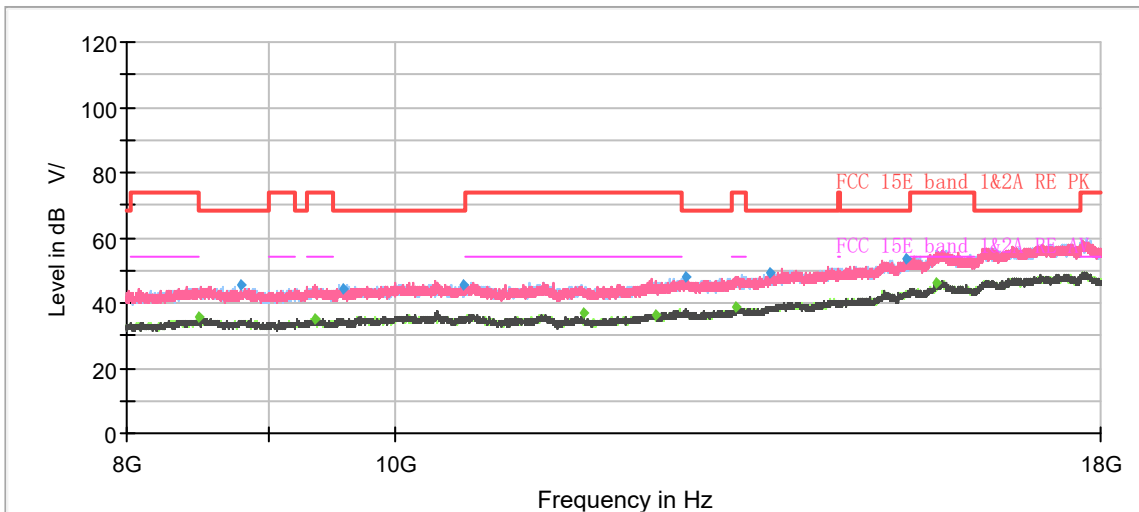
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1243.13	32.80	---	68.20	35.40	200.0	H	136.00	-17
1390.13	---	23.32	54.00	30.69	100.0	H	187.00	-16
1692.53	---	24.49	54.00	29.51	100.0	H	118.00	-15
1900.20	34.97	---	68.20	33.23	100.0	V	8.00	-14
2653.40	37.07	---	68.20	31.13	100.0	V	290.00	-10
2776.13	---	27.73	54.00	26.27	200.0	H	55.00	-9
3425.03	40.08	---	68.20	28.12	100.0	H	110.00	-6
3991.57	---	31.42	54.00	22.58	200.0	V	343.00	-4
4432.33	41.20	---	68.20	27.00	200.0	V	170.00	-3
4694.37	---	31.50	54.00	22.50	200.0	V	154.00	-3
7544.77	---	33.85	54.00	20.15	100.0	H	307.00	1
7766.43	45.61	---	68.20	22.59	100.0	V	105.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH36



Radiates Emission from 1GHz to 8GHz



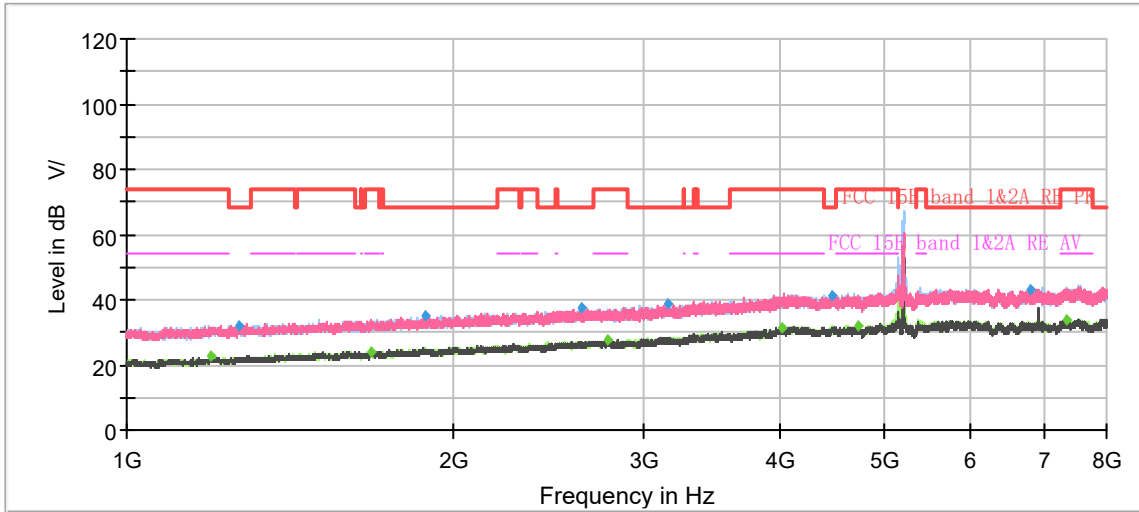
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



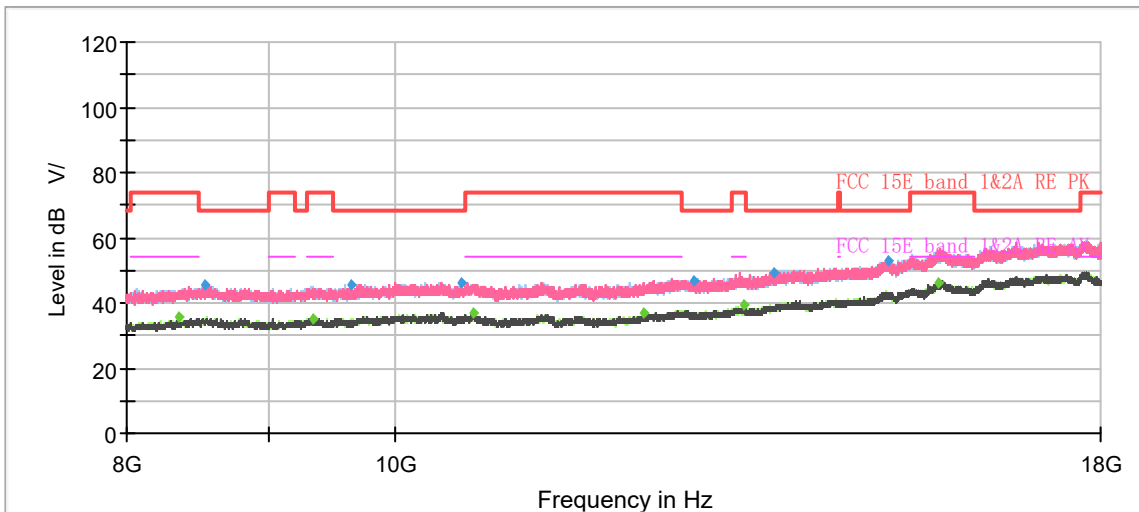
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1264.60	32.16	---	68.20	36.04	200.0	H	155.00	-17
1412.53	---	23.27	54.00	30.73	100.0	V	219.00	-16
1608.30	---	24.54	54.00	29.46	100.0	H	296.00	-15
1869.40	35.77	---	68.20	32.43	100.0	V	196.00	-14
2612.80	37.13	---	68.20	31.07	200.0	V	260.00	-10
2792.00	---	27.57	54.00	26.43	200.0	V	0.00	-9
3517.90	40.03	---	68.20	28.17	200.0	H	329.00	-6
3996.00	---	31.15	54.00	22.85	200.0	V	53.00	-4
4451.93	41.53	---	68.20	26.67	200.0	V	260.00	-3
4604.07	---	31.39	54.00	22.61	100.0	V	62.00	-3
6903.57	43.86	---	68.20	24.34	100.0	H	219.00	1
7524.70	---	33.92	54.00	20.08	200.0	H	0.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH40



Radiates Emission from 1GHz to 8GHz



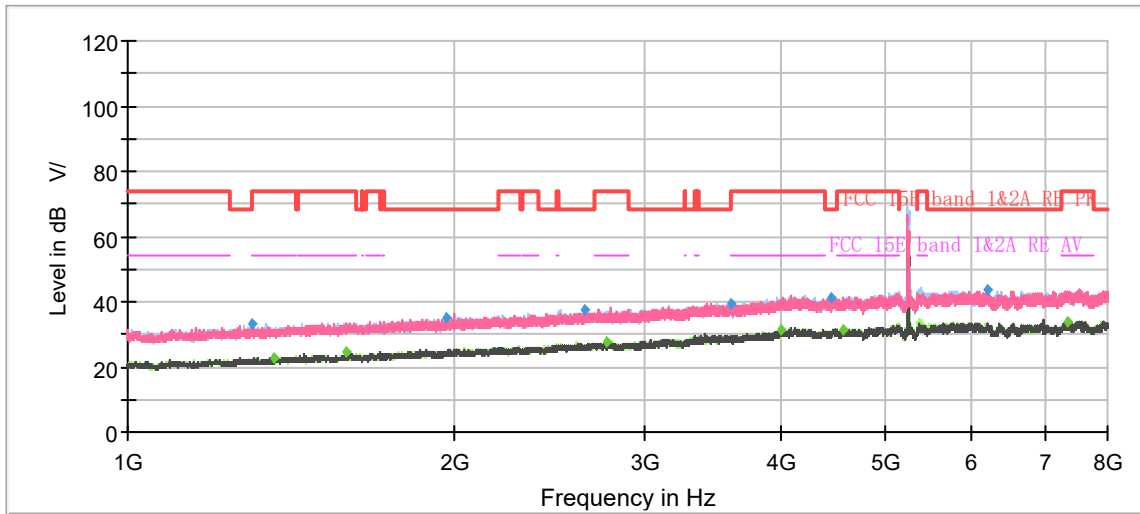
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



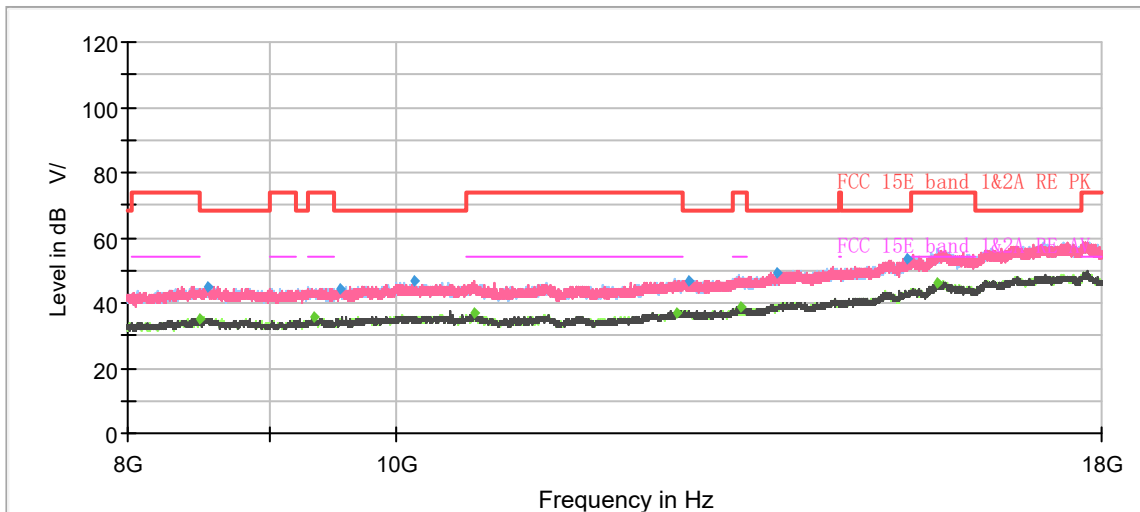
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1194.37	---	22.50	54.00	31.50	200.0	V	165.00	-18
1266.23	31.74	---	68.20	36.46	100.0	V	347.00	-17
1680.87	---	24.21	54.00	29.79	100.0	H	186.00	-15
1885.73	35.31	---	68.20	32.89	100.0	H	155.00	-14
2620.73	37.62	---	68.20	30.58	100.0	H	126.00	-10
2772.17	---	27.52	54.00	26.48	100.0	H	194.00	-9
3148.07	38.78	---	68.20	29.42	100.0	V	339.00	-8
4022.60	---	31.13	54.00	22.87	200.0	H	0.00	-4
4474.33	41.29	---	68.20	26.91	200.0	H	278.00	-3
4722.60	---	32.01	54.00	21.99	100.0	V	325.00	-3
6812.57	43.32	---	68.20	24.88	100.0	V	290.00	0
7336.63	---	33.84	54.00	20.16	100.0	H	0.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH48



Radiates Emission from 1GHz to 8GHz



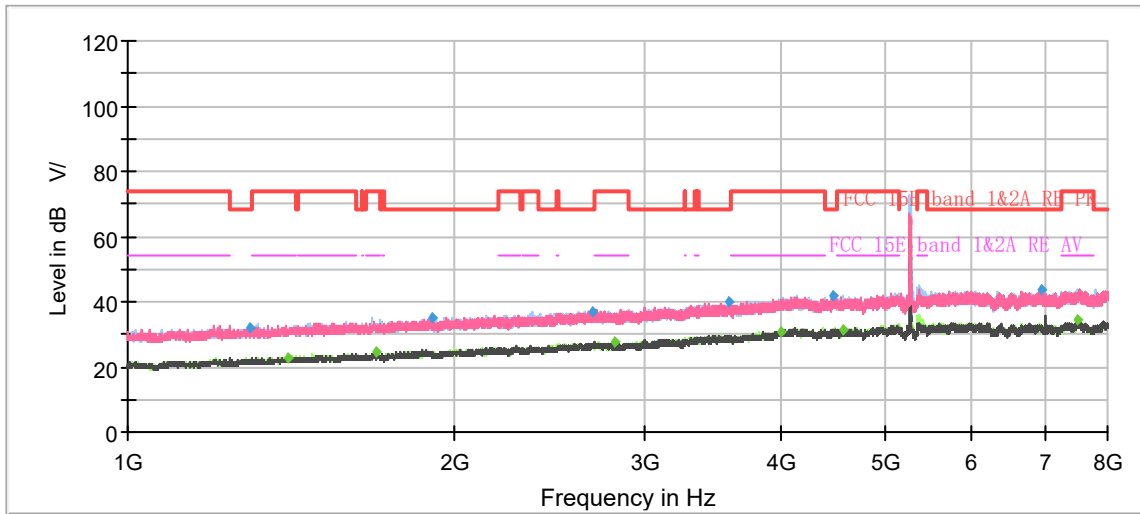
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



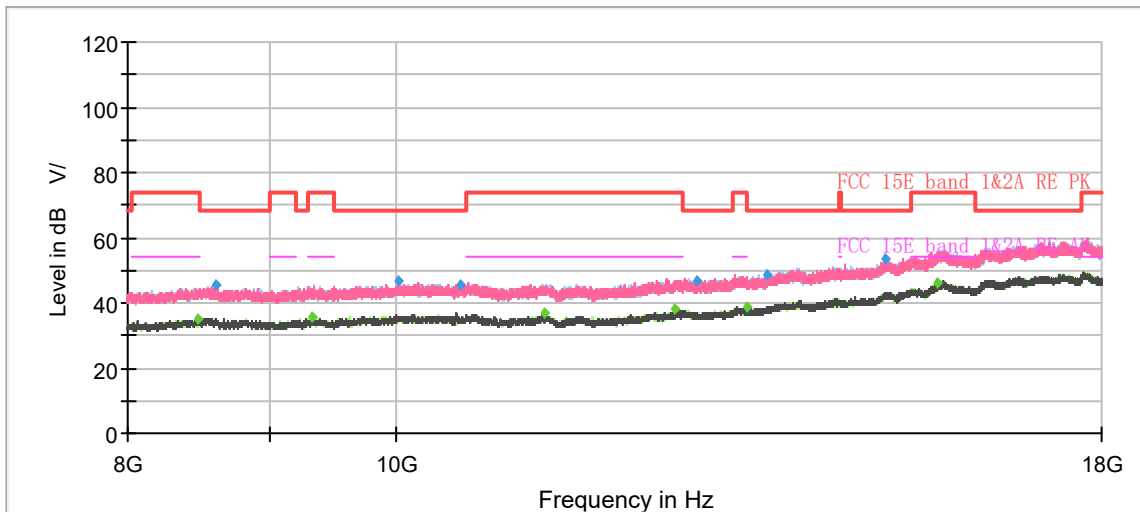
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1299.60	33.12	---	68.20	35.08	200.0	V	111.00	-17
1362.60	---	23.03	54.00	30.97	100.0	V	310.00	-17
1589.17	---	24.51	54.00	29.49	200.0	H	282.00	-15
1965.53	34.88	---	68.20	33.32	200.0	V	296.00	-13
2641.97	37.68	---	68.20	30.52	200.0	H	335.00	-10
2768.20	---	27.79	54.00	26.21	100.0	H	0.00	-9
3591.17	39.66	---	68.20	28.54	200.0	V	5.00	-6
3992.73	---	31.67	54.00	22.33	200.0	V	66.00	-4
4446.80	41.15	---	68.20	27.05	100.0	H	134.00	-3
4561.83	---	31.09	54.00	22.91	100.0	H	78.00	-3
6200.30	43.64	---	68.20	24.56	200.0	H	192.00	0
7350.17	---	33.91	54.00	20.09	200.0	H	267.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH52



Radiates Emission from 1GHz to 8GHz



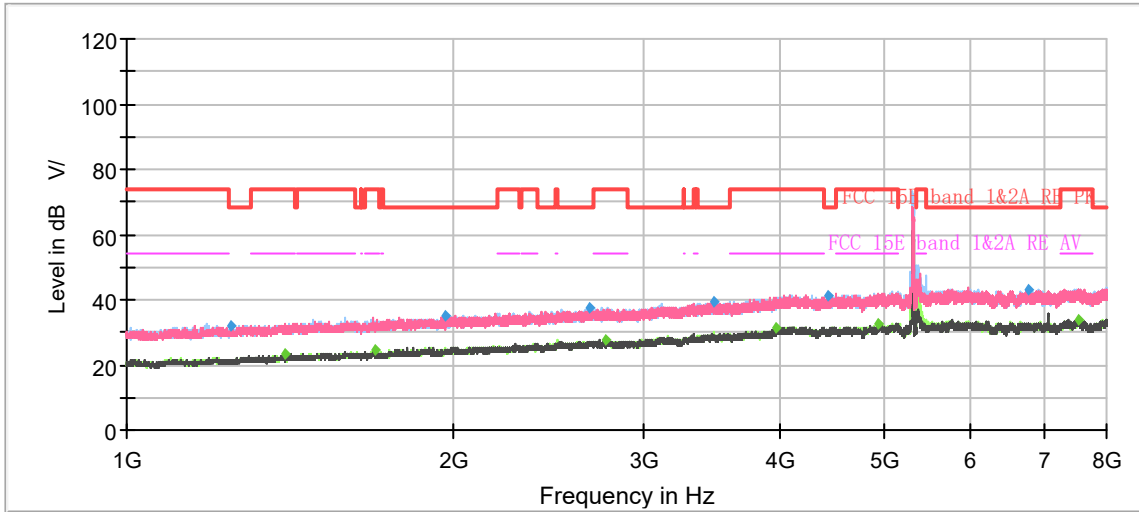
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



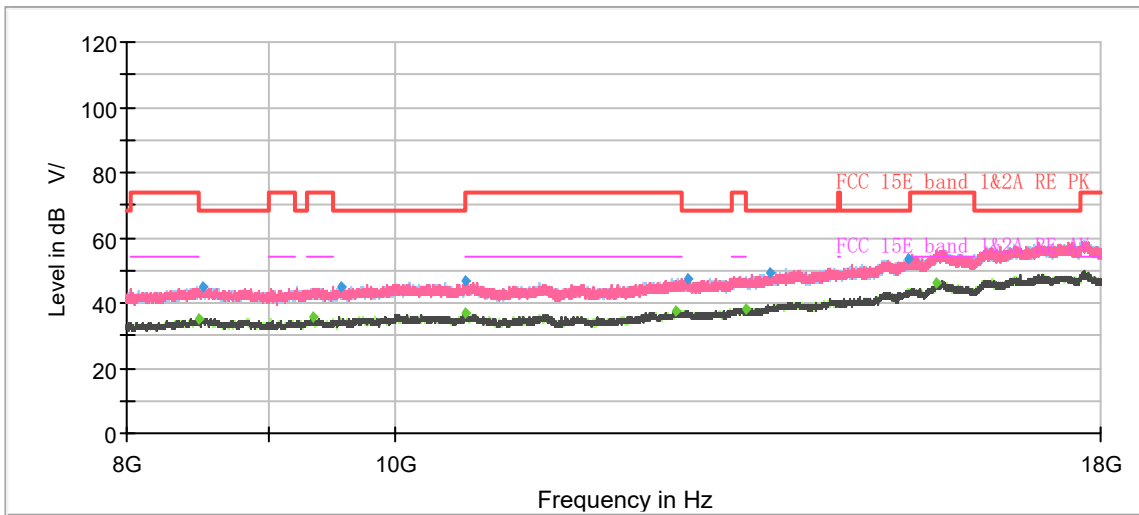
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1298.67	32.15	---	68.20	36.05	100.0	V	340.00	-17
1407.63	---	22.93	54.00	31.07	100.0	V	225.00	-16
1691.13	---	24.74	54.00	29.26	200.0	H	238.00	-15
1912.57	35.18	---	68.20	33.02	100.0	V	239.00	-13
2685.60	36.89	---	68.20	31.31	100.0	H	28.00	-10
2809.73	---	27.44	54.00	26.56	200.0	H	351.00	-9
3588.83	39.84	---	68.20	28.36	200.0	V	211.00	-6
3994.83	---	30.96	54.00	23.04	100.0	V	187.00	-4
4464.07	41.70	---	68.20	26.50	100.0	V	0.00	-3
4566.73	---	31.25	54.00	22.75	200.0	V	211.00	-3
6940.67	43.58	---	68.20	24.62	100.0	H	153.00	1
7493.43	---	34.57	54.00	19.43	200.0	V	226.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT20) CH60



Radiates Emission from 1GHz to 8GHz



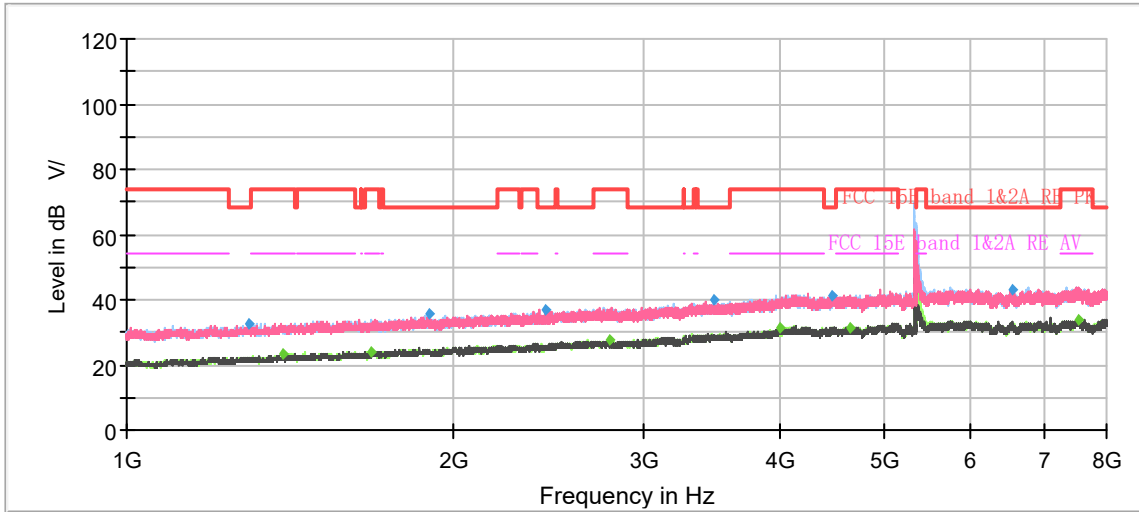
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



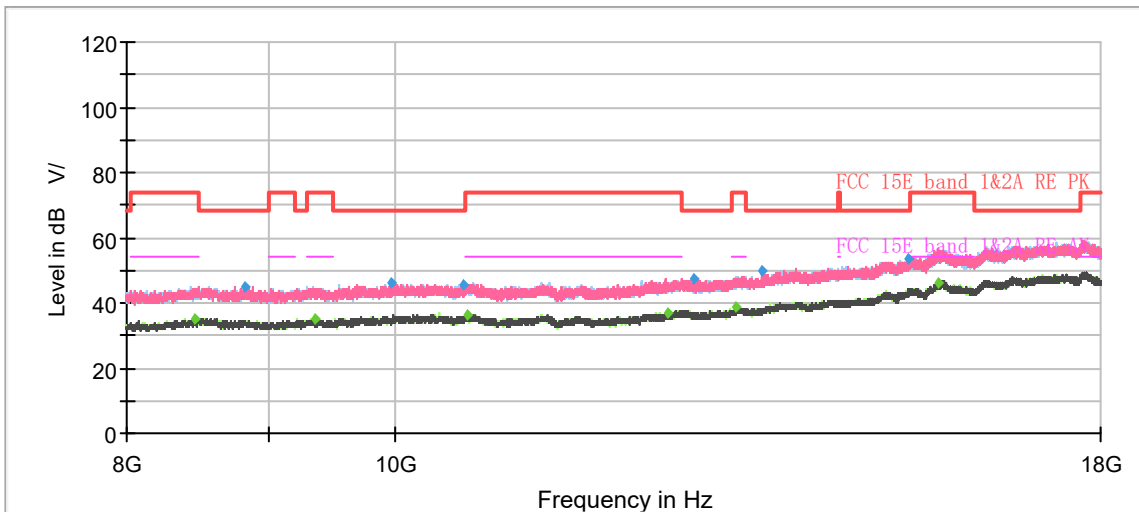
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1249.43	32.14	---	68.20	36.06	200.0	V	0.00	-17
1397.83	---	23.10	54.00	30.90	200.0	H	241.00	-16
1697.90	---	24.80	54.00	29.20	200.0	H	139.00	-15
1966.47	35.21	---	68.20	32.99	200.0	H	346.00	-13
2668.10	37.39	---	68.20	30.81	100.0	H	27.00	-10
2766.10	---	27.69	54.00	26.31	100.0	V	194.00	-9
3474.50	39.55	---	68.20	28.65	100.0	H	236.00	-6
3969.17	---	31.09	54.00	22.91	100.0	V	339.00	-4
4435.13	41.03	---	68.20	27.17	100.0	V	353.00	-3
4931.20	---	32.83	54.00	21.17	100.0	V	346.00	-2
6771.97	43.36	---	68.20	24.84	200.0	H	330.00	0
7544.77	---	34.14	54.00	19.86	200.0	V	96.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH64



Radiates Emission from 1GHz to 8GHz



Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz

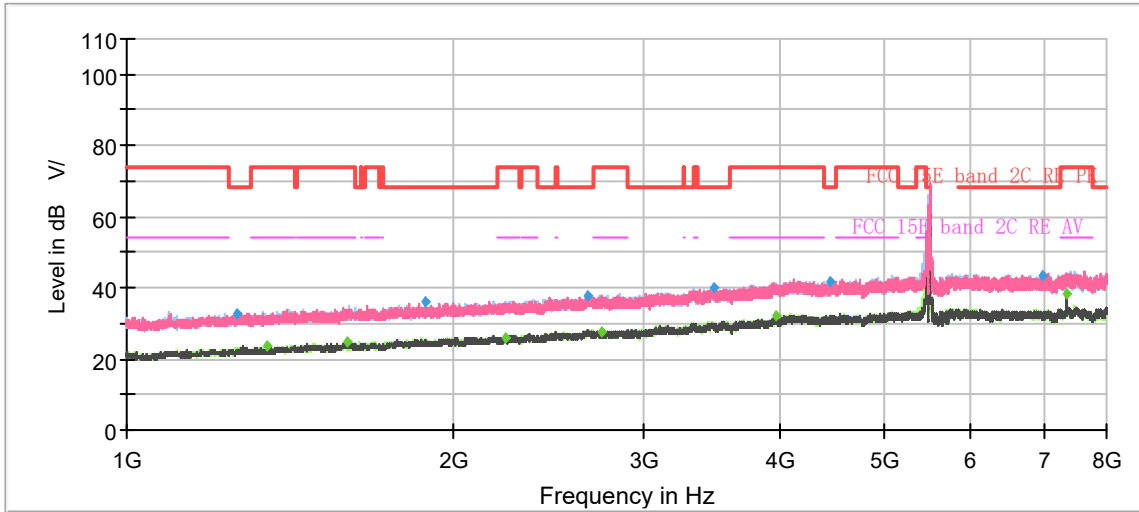


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1298.20	32.47	---	68.20	35.73	100.0	H	67.00	-17
1392.23	---	23.29	54.00	30.71	100.0	V	291.00	-16
1679.23	---	23.99	54.00	30.01	200.0	H	162.00	-15
1900.67	35.48	---	68.20	32.72	200.0	V	145.00	-14
2433.83	37.14	---	68.20	31.06	100.0	V	54.00	-11
2790.37	---	27.50	54.00	26.50	100.0	H	0.00	-9
3481.03	39.89	---	68.20	28.31	100.0	H	30.00	-6
3993.20	---	31.63	54.00	22.37	100.0	H	105.00	-4
4475.50	41.02	---	68.20	27.18	100.0	H	98.00	-3
4638.37	---	31.63	54.00	22.37	200.0	V	0.00	-3
6538.40	43.36	---	68.20	24.84	100.0	H	60.00	0
7547.33	---	33.94	54.00	20.06	100.0	V	0.00	1

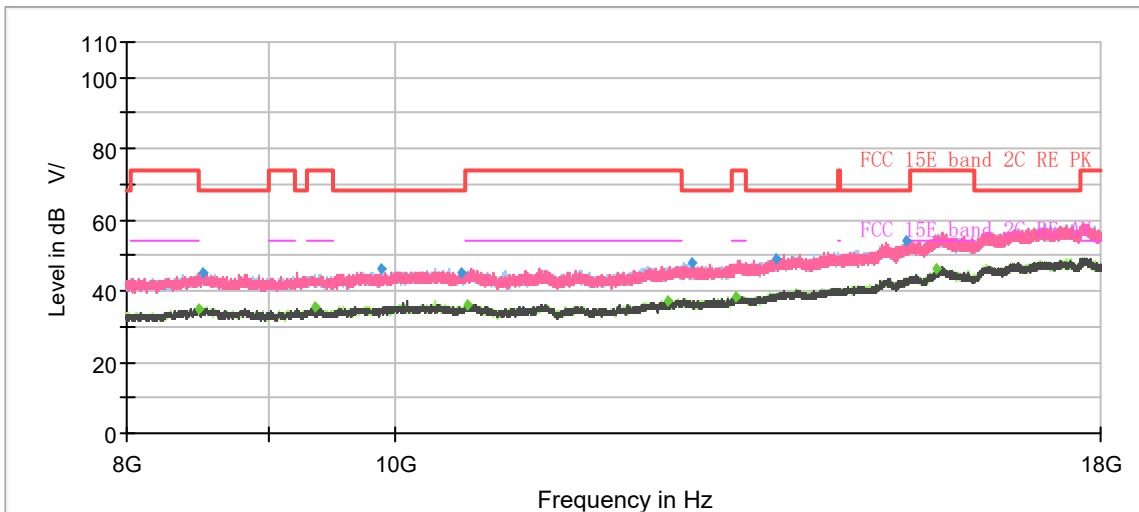
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11ac (VHT20) CH100



Radiates Emission from 1GHz to 8GHz



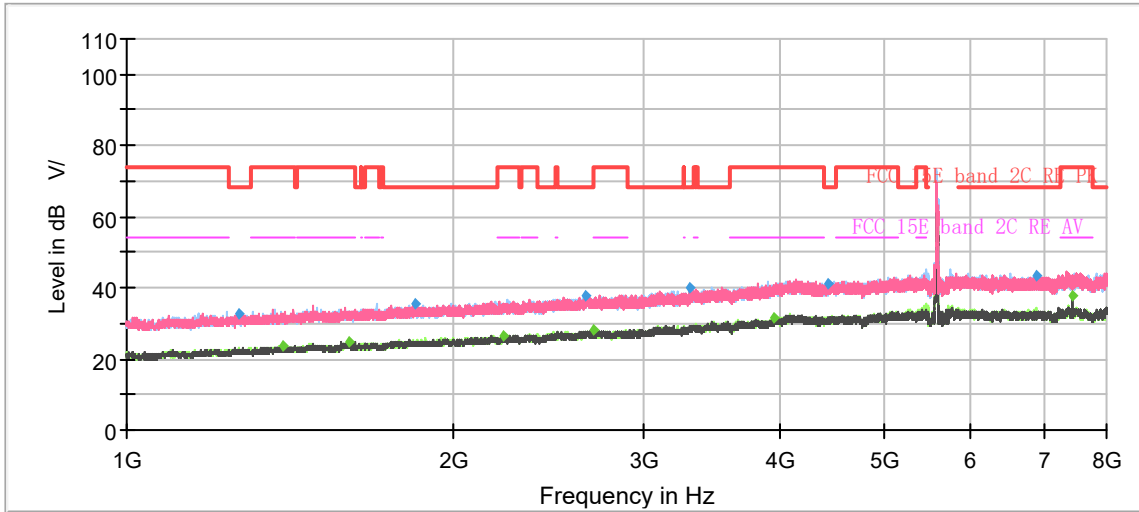
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



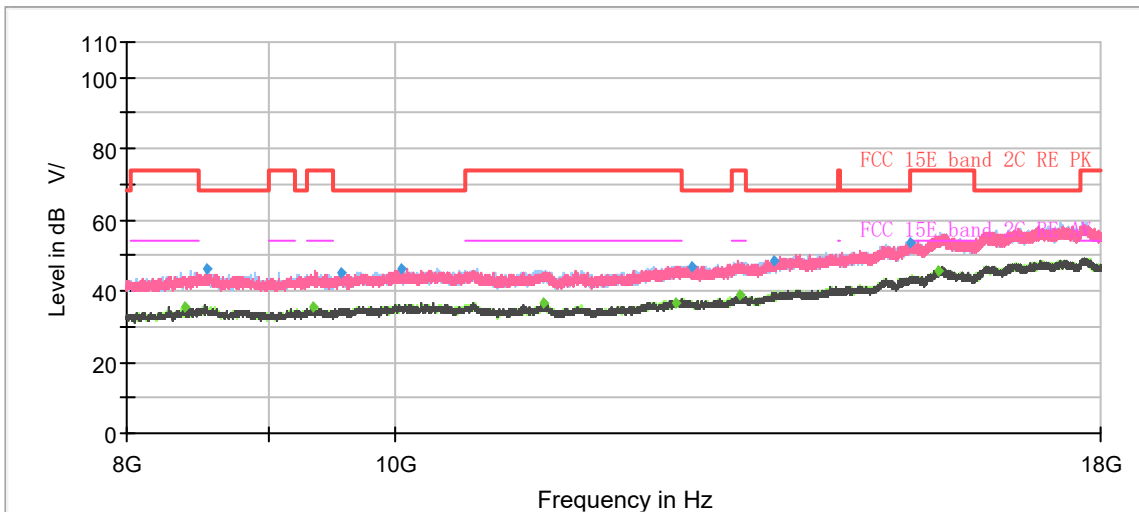
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1261.333333	32.92	---	68.20	35.28	100.0	H	266.0	-17
1345.566667	---	23.61	54.00	30.39	200.0	H	0.0	-17
1594.066667	---	25.02	54.00	28.98	100.0	H	174.0	-15
1885.966667	36.19	---	68.20	32.01	100.0	H	356.0	-14
2234.333333	---	25.75	54.00	28.25	100.0	H	83.0	-12
2654.333333	37.58	---	68.20	30.62	100.0	H	344.0	-10
2739.500000	---	27.88	54.00	26.12	200.0	V	82.0	-9
3476.600000	40.08	---	68.20	28.12	200.0	H	275.0	-6
3966.366667	---	32.19	54.00	21.81	200.0	V	279.0	-4
4456.833333	41.77	---	68.20	26.43	200.0	V	152.0	-3
6971.700000	43.37	---	68.20	24.83	200.0	H	307.0	1
7333.600000	---	38.53	54.00	15.47	100.0	V	170.0	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT20) CH116



Radiates Emission from 1GHz to 8GHz



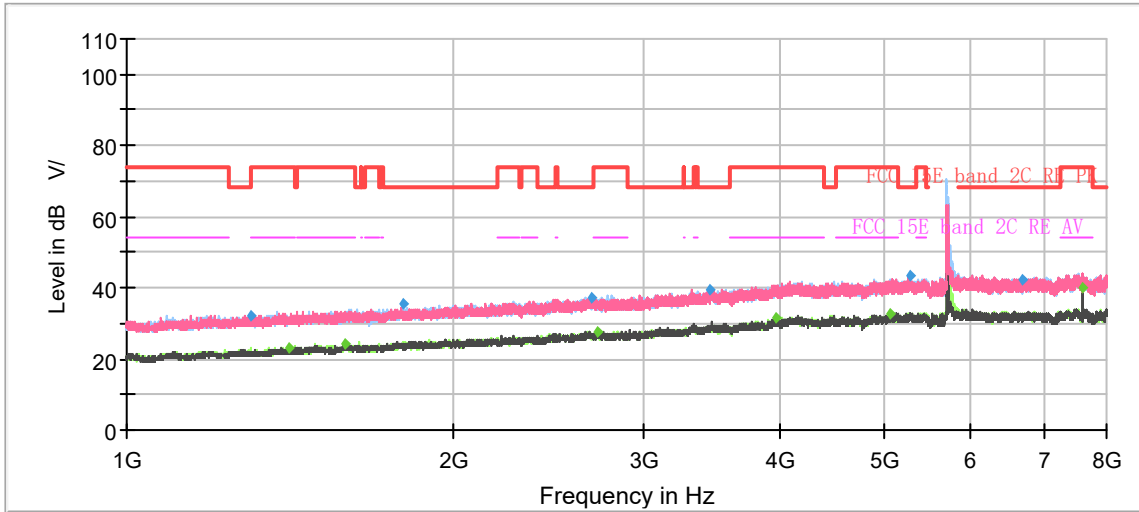
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



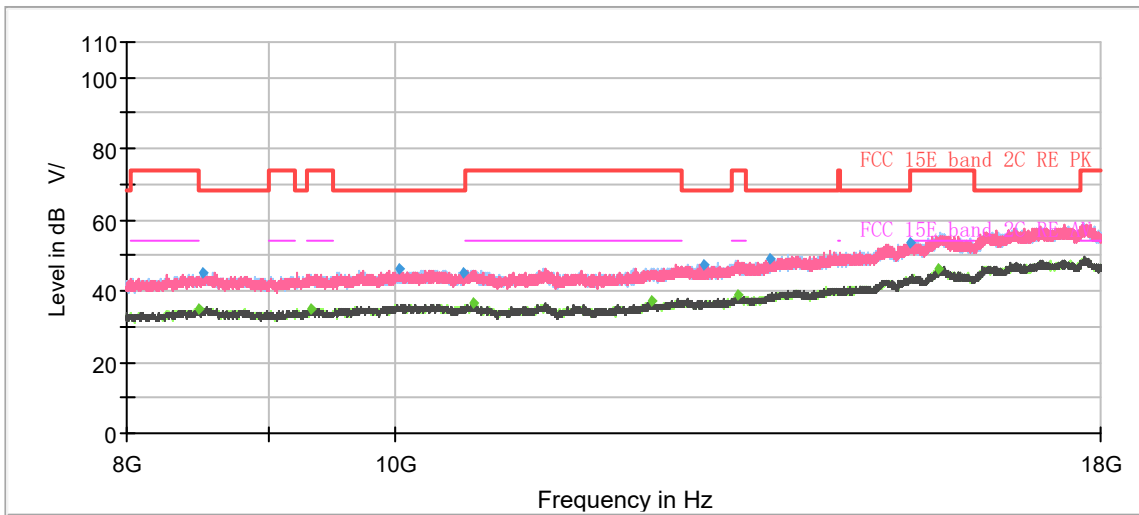
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1271.366667	32.65	---	68.20	35.55	100.0	H	148.0	-17
1395.733333	---	23.56	54.00	30.44	100.0	H	179.0	-16
1601.766667	---	24.84	54.00	29.16	200.0	H	293.0	-15
1848.166667	35.63	---	68.20	32.57	200.0	V	149.0	-14
2226.400000	---	26.68	54.00	27.32	100.0	V	172.0	-12
2645.466667	37.85	---	68.20	30.35	100.0	H	323.0	-10
2690.733333	---	28.08	54.00	25.92	100.0	H	0.0	-9
3304.400000	40.00	---	68.20	28.20	100.0	H	0.0	-7
3957.033333	---	31.66	54.00	22.34	200.0	H	315.0	-4
4438.866667	41.41	---	68.20	26.79	200.0	H	343.0	-3
6891.666667	43.28	---	68.20	24.92	200.0	H	61.0	1
7440.000000	---	37.79	54.00	16.21	100.0	V	172.0	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT20) CH140



Radiates Emission from 1GHz to 8GHz



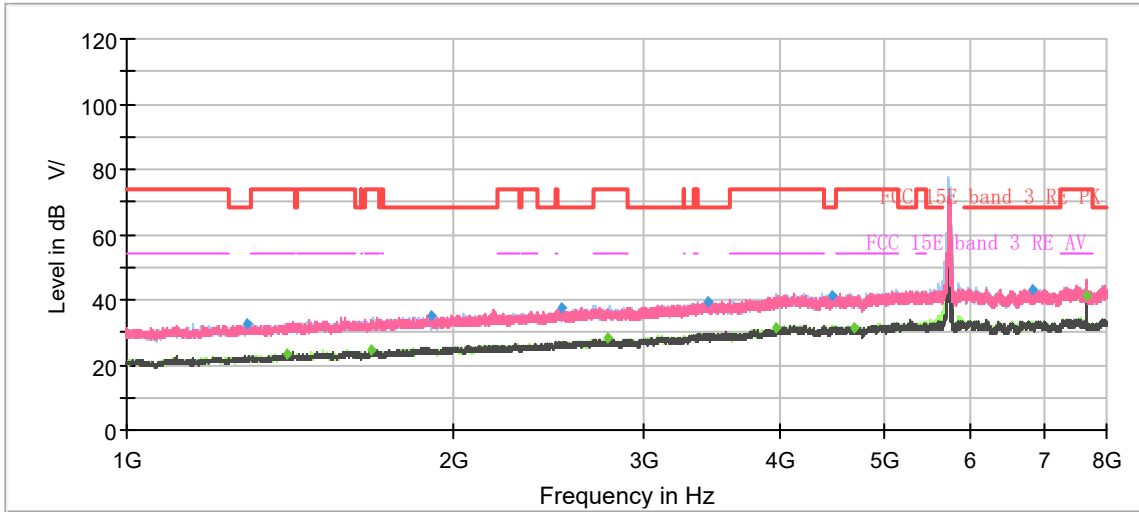
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



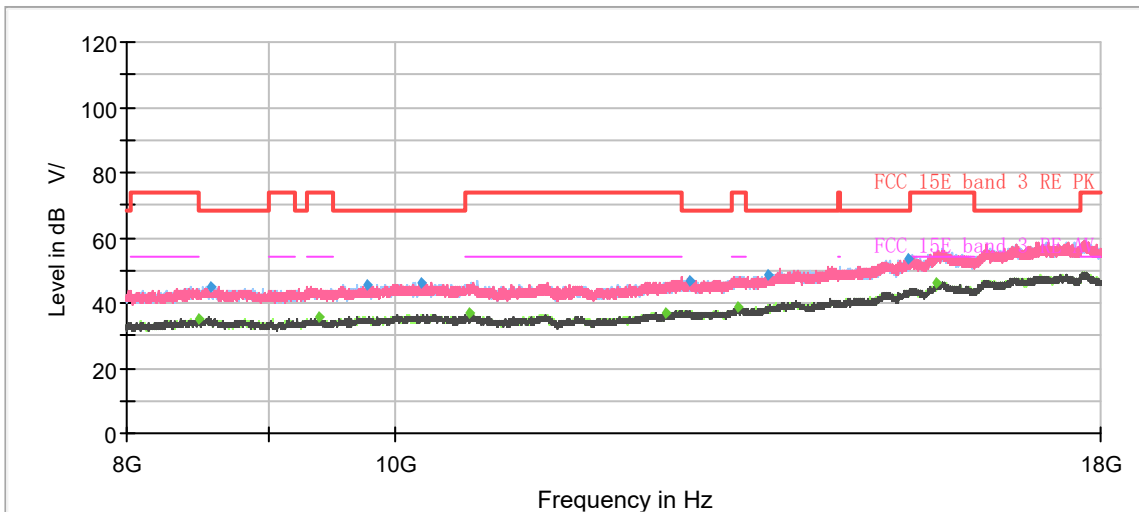
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1299.60	32.21	---	68.20	35.99	100.0	V	103.00	-17
1408.80	---	23.27	54.00	30.73	200.0	H	299.00	-16
1591.97	---	24.27	54.00	29.73	100.0	H	124.00	-15
1798.93	35.50	---	68.20	32.70	100.0	H	45.00	-14
2680.23	37.48	---	68.20	30.72	200.0	V	337.00	-10
2717.57	---	27.60	54.00	26.40	200.0	H	0.00	-9
3453.97	39.69	---	68.20	28.51	200.0	H	168.00	-6
3964.73	---	31.47	54.00	22.53	100.0	V	36.00	-4
5050.20	---	32.63	54.00	21.37	100.0	V	51.00	-1
5270.47	43.39	---	68.20	24.81	200.0	H	160.00	-1
6704.77	42.59	---	68.20	25.61	200.0	H	51.00	0
7600.07	---	39.95	54.00	14.05	100.0	V	103.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH149



Radiates Emission from 1GHz to 8GHz



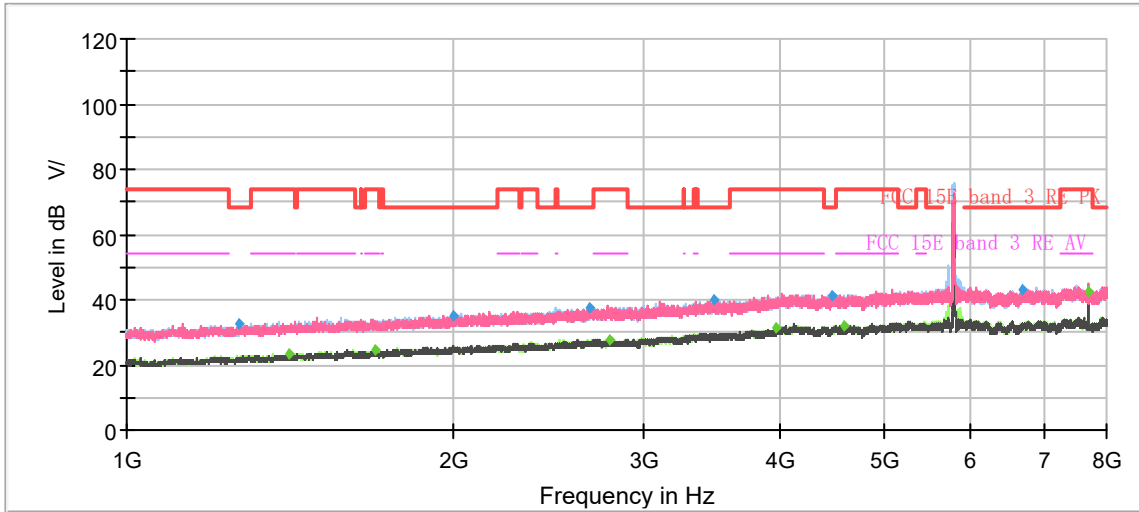
Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz



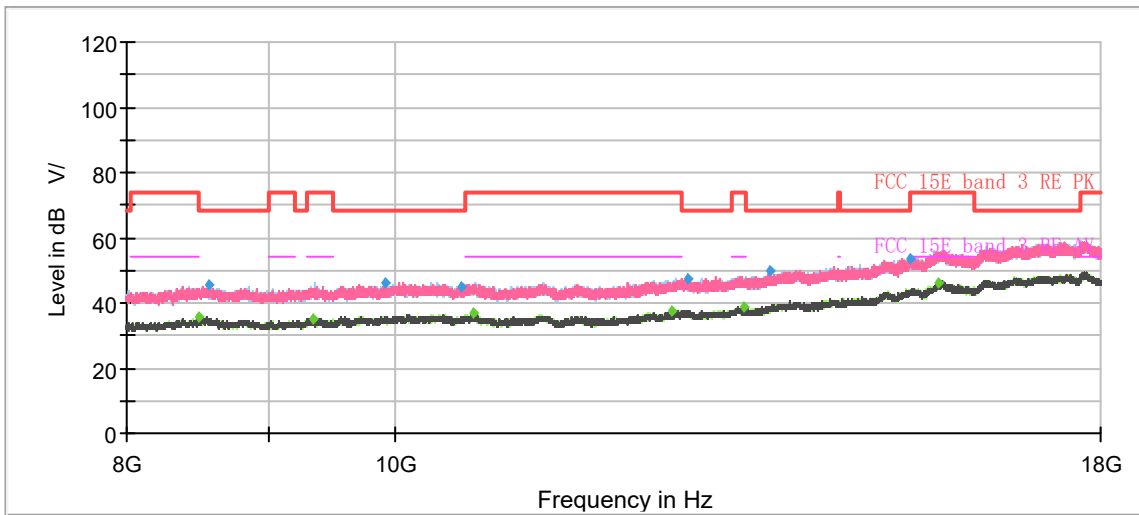
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1290.97	32.48	---	68.20	35.72	200.0	V	181.00	-17
1407.17	---	23.33	54.00	30.67	100.0	V	104.00	-16
1682.03	---	24.83	54.00	29.17	100.0	V	208.00	-15
1908.13	35.27	---	68.20	32.93	100.0	H	323.00	-14
2518.07	37.40	---	68.20	30.80	100.0	V	290.00	-10
2775.90	---	28.07	54.00	25.93	200.0	V	104.00	-9
3432.03	39.56	---	68.20	28.64	100.0	H	22.00	-6
3969.40	---	31.25	54.00	22.75	100.0	H	60.00	-4
4461.27	40.93	---	68.20	27.27	200.0	H	263.00	-3
4687.83	---	31.66	54.00	22.34	200.0	V	73.00	-3
6843.83	43.06	---	68.20	25.14	100.0	V	15.00	0
7660.03	---	41.20	54.00	12.80	100.0	V	104.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (VHT20) CH157



Radiates Emission from 1GHz to 8GHz



Note: The signal beyond the limit is carrier.
Radiates Emission from 8GHz to 18GHz