



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	( <sup>2</sup> )
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

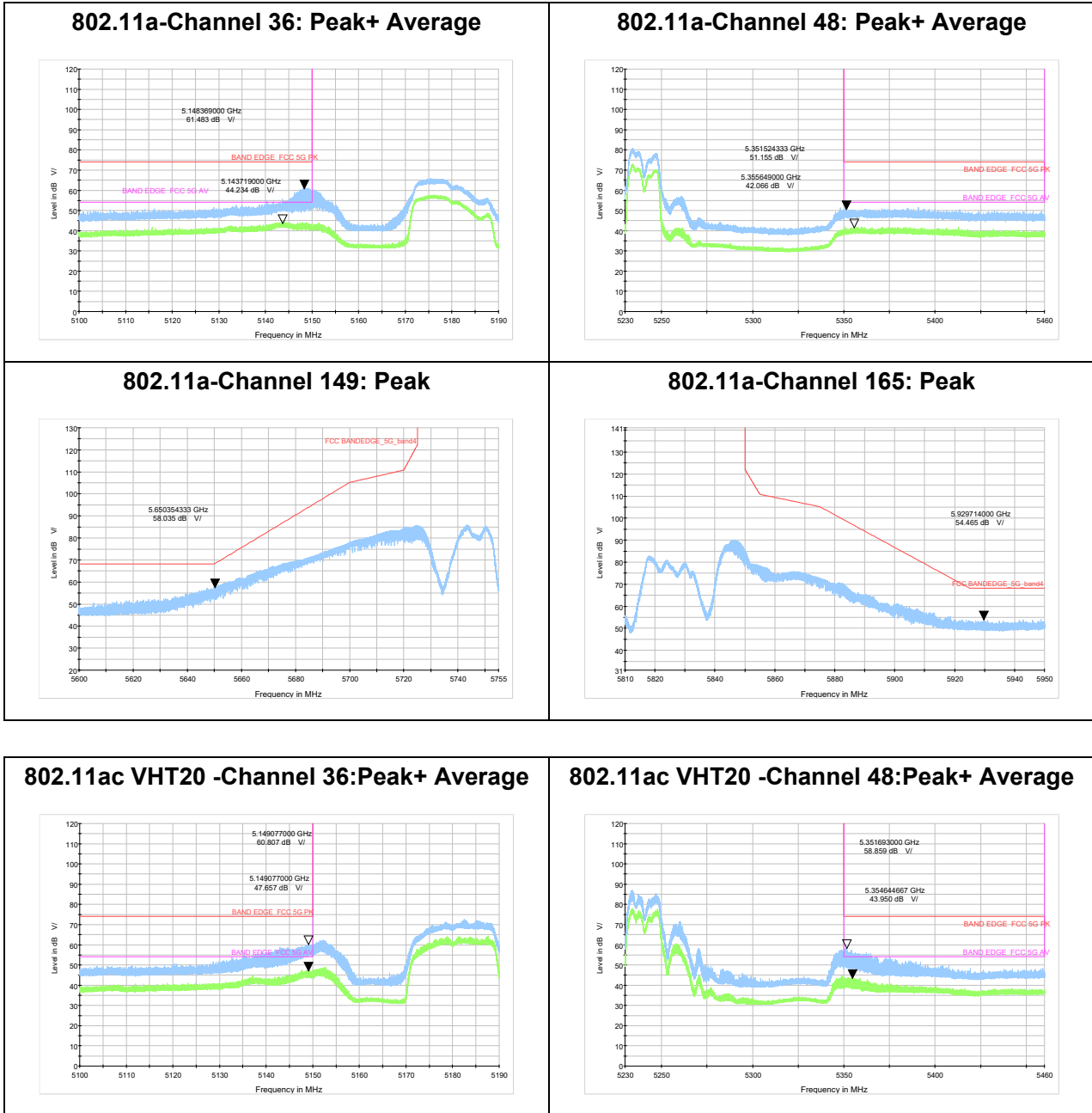


**Test Results:**

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.

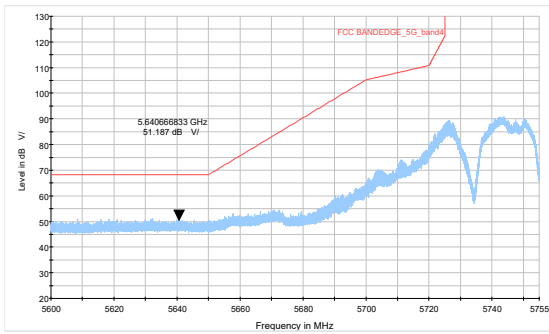
Note: A font (Level in dB V) in the test plot = (level in dB $\mu$ V/m)

**The signal beyond the limit is carrier.**

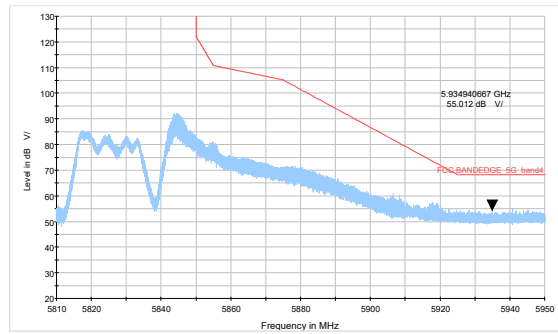




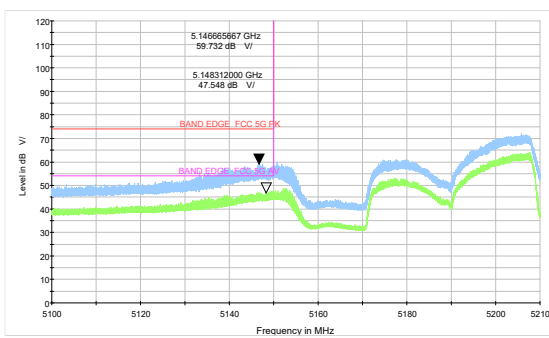
802.11ac VHT20-Channel 149: Peak



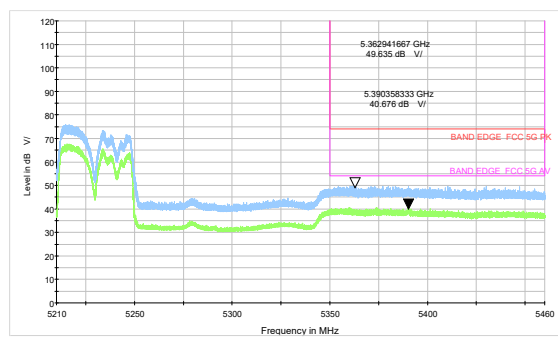
802.11ac VHT20-Channel 165: Peak



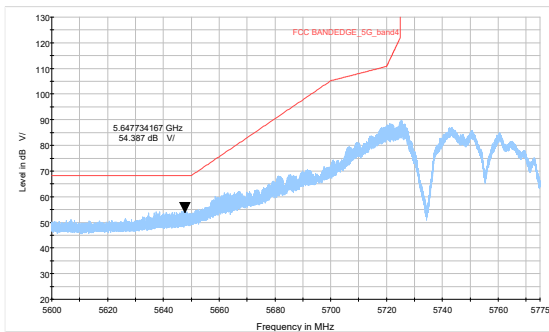
802.11ac VHT40-Channel 38:Peak+ Average



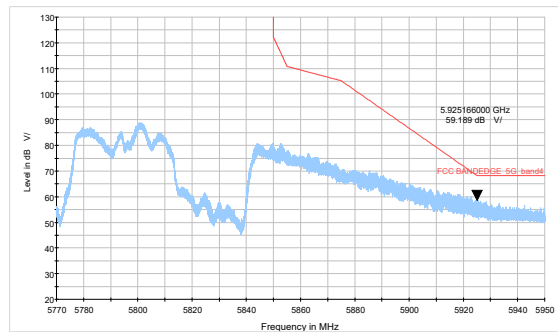
802.11ac VHT40-Channel 46:Peak+ Average



802.11ac VHT40-Channel 151:Peak

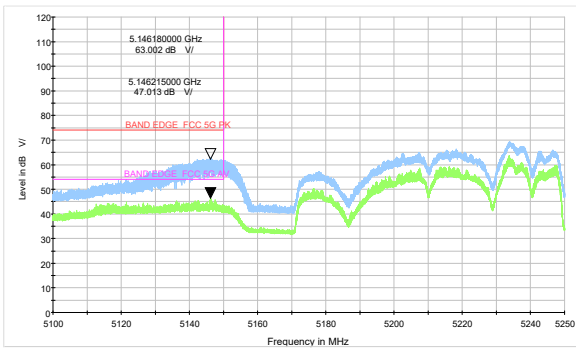


802.11ac VHT40-Channel 159:Peak+ Average

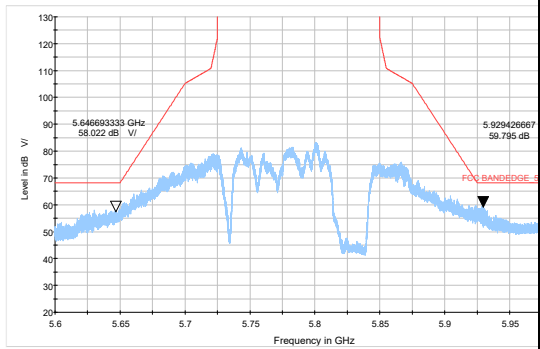




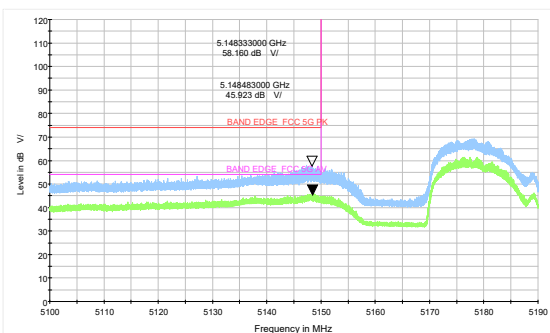
### 802.11ac VHT80 –Channel 42:Peak+ Average



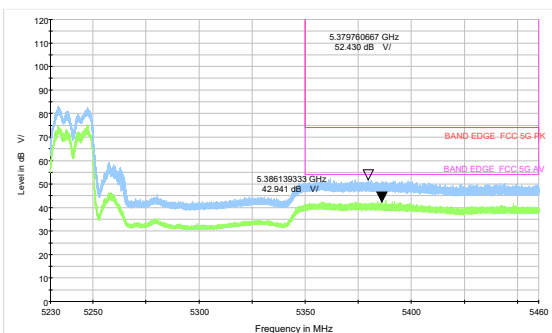
### 802.11ac VHT80 –Channel 155:Peak+ Average



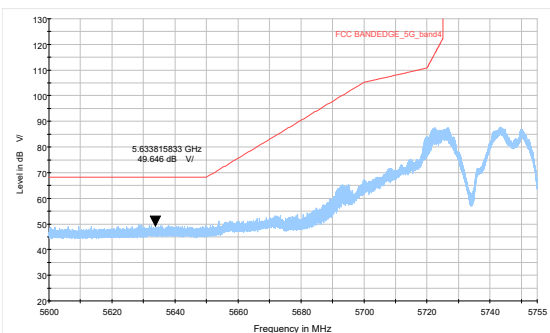
### 802.11ax HE20 -Channel 36:Peak+ Average



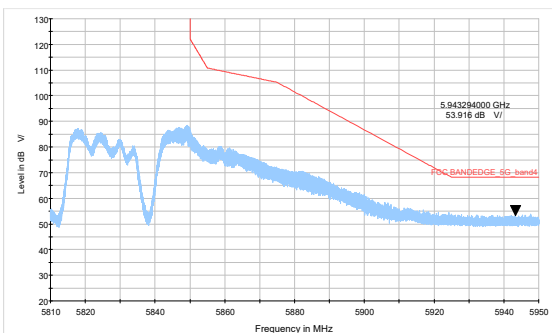
### 802.11ax HE20 -Channel 48:Peak+ Average



### 802.11ax HE20-Channel 149: Peak+ Average

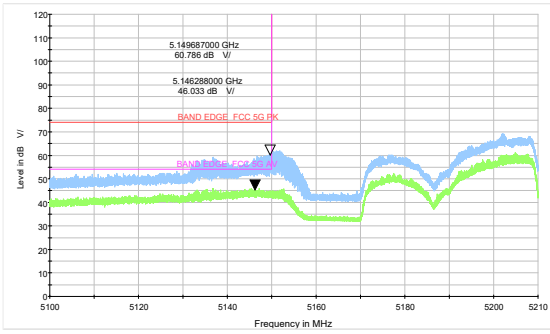


### 802.11ax HE20-Channel 165: Peak

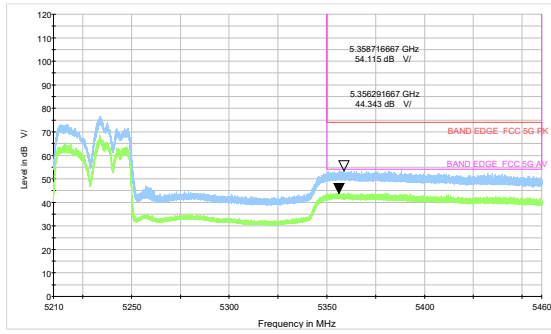




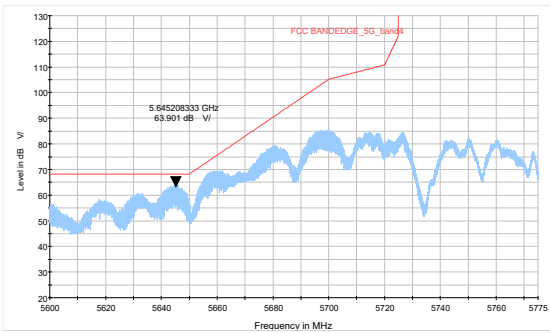
### 802.11ax HE40-Channel 38:Peak+ Average



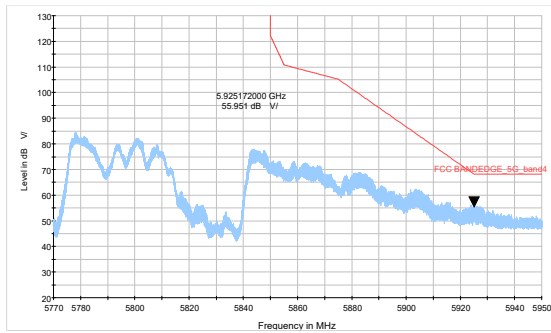
### 802.11ax HE40-Channel 46:Peak+ Average



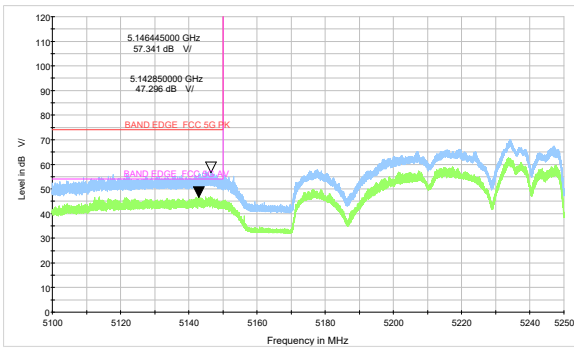
### 802.11ax HE40-Channel 151:Peak



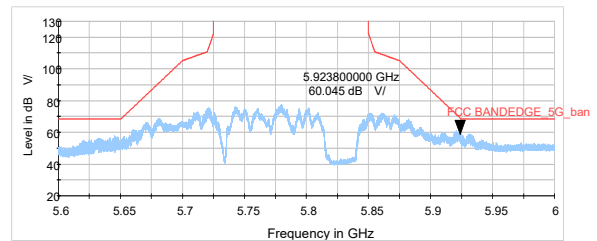
### 802.11ax HE40-Channel 159:Peak+ Average



### 802.11ax HE80 -Channel 42:Peak+ Average



### 802.11ax HE80 -Channel 155:Peak





### Result of RE

#### Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 26.5GHz-40GHz are more than 20dB below the limit are not reported.

Note: A font (Level in dB $\mu$ V/) in the test plot = (level in dB $\mu$ V/m);

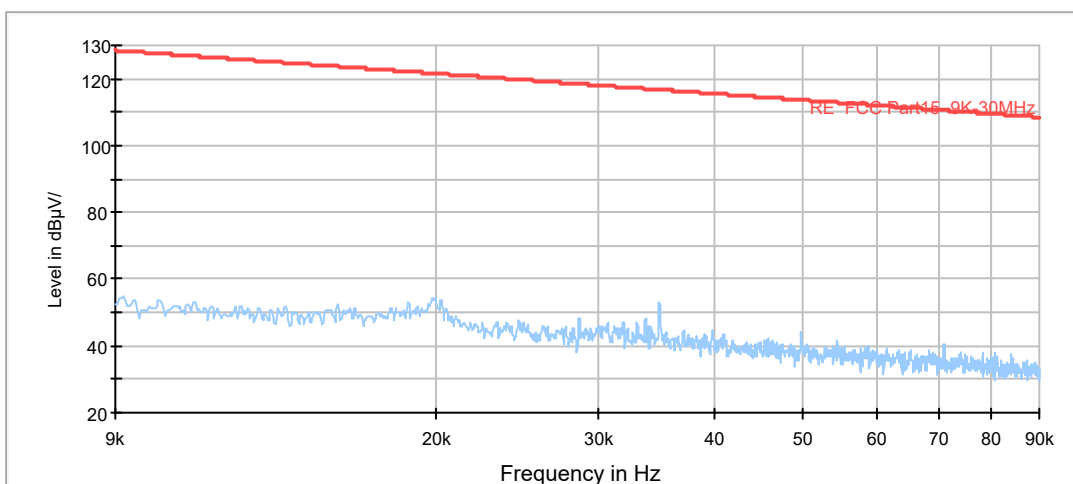
A font (Level in dB V/) in the test plot = (level in dB $\mu$ V/m)

After the pretest, MIMO was selected as the worst antenna. SISO Antenna 1 was selected as the worst SISO antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ac VHT20, Channel 52 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

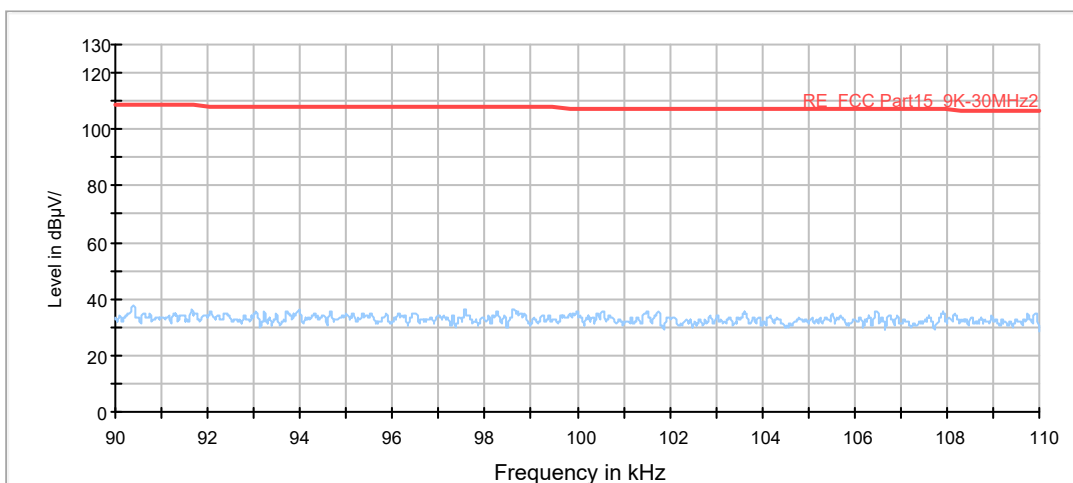
#### Continuous TX mode:

FCC RE 9K-90KHz AV



Radiates Emission from 9KHz to 90KHz

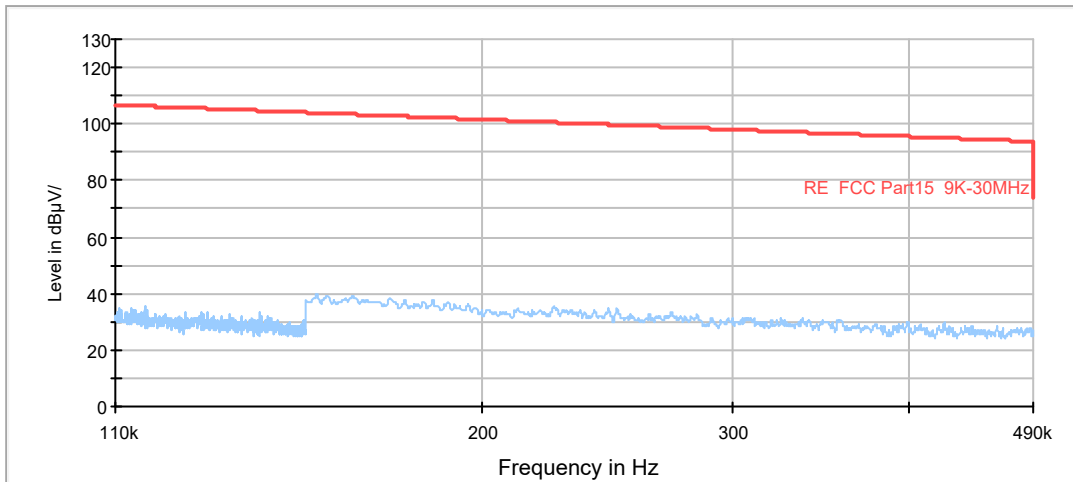
FCC RE 90K-110KHz QP





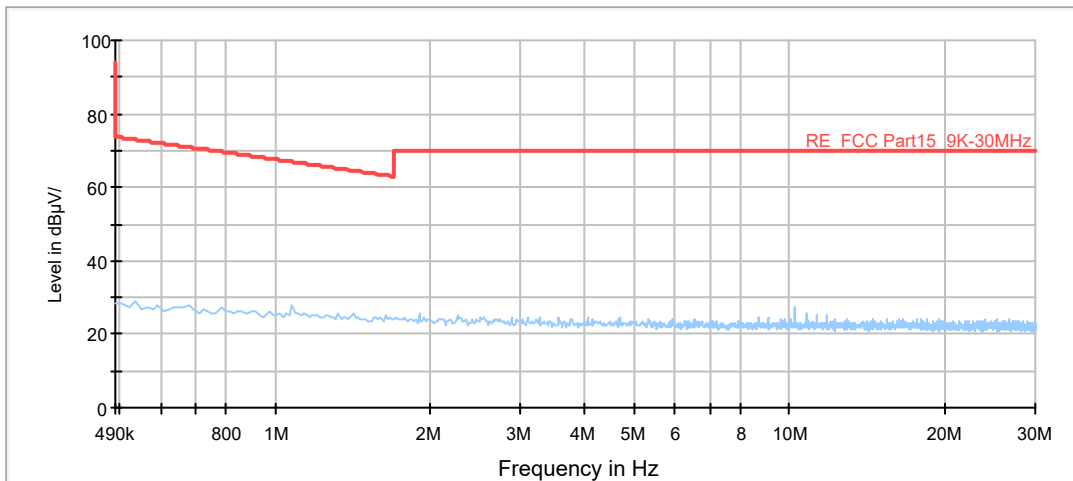
### Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV

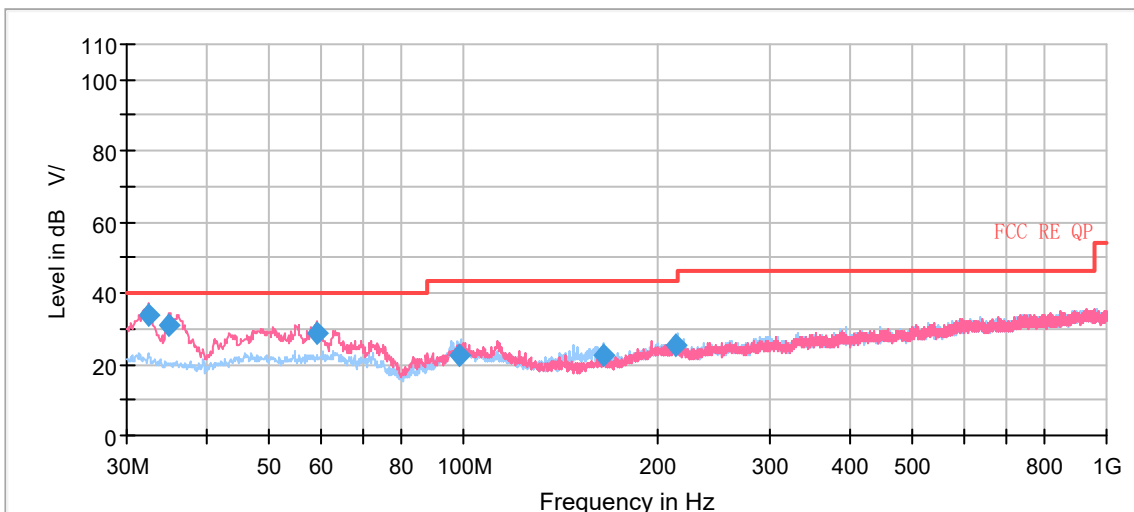


### Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



### Radiates Emission from 490KHz to 30MHz



Radiates Emission from 30MHz to 1GHz

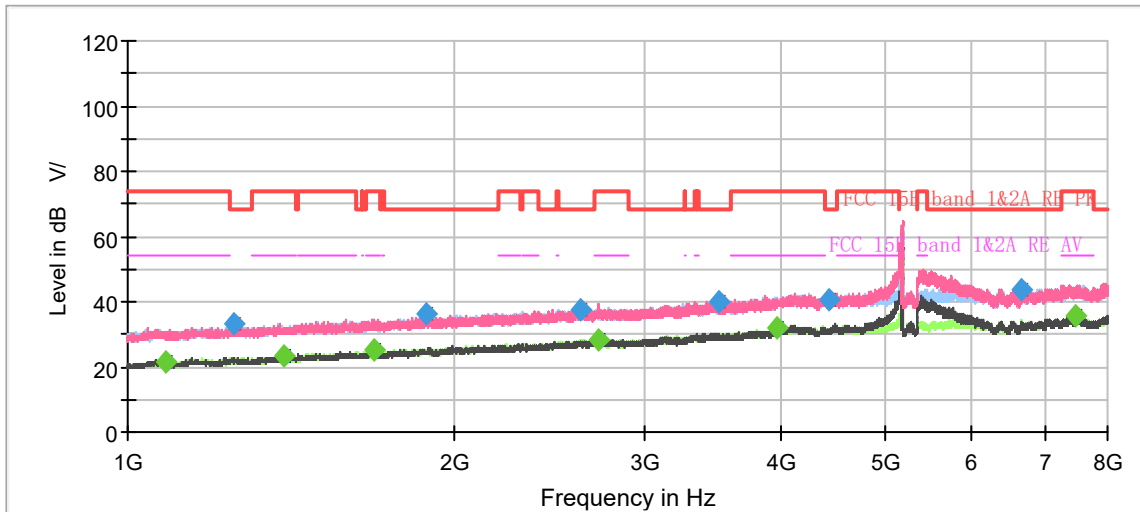
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.346250	33.89	100.0	V	170.0	-4.7	6.11	40.00
34.931250	31.10	100.0	V	171.0	-5.3	8.90	40.00
59.180000	28.75	100.0	V	0.0	-5.3	11.25	40.00
98.992500	22.38	225.0	H	255.0	-6.0	21.12	43.50
165.076250	22.45	175.0	H	96.0	-8.8	21.05	43.50
214.025500	25.58	125.0	H	115.0	-6.1	17.92	43.50

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

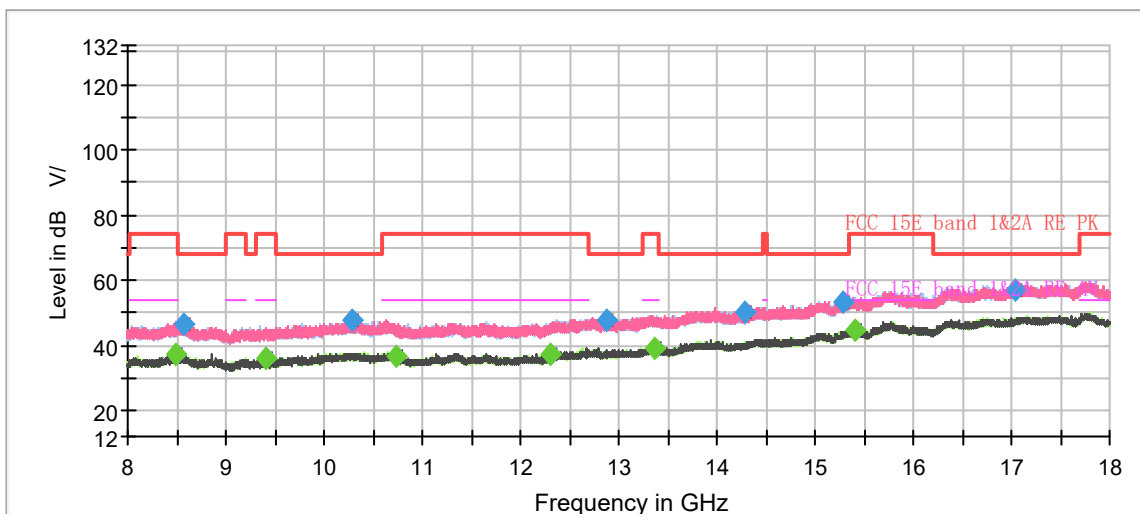




802.11a CH36



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



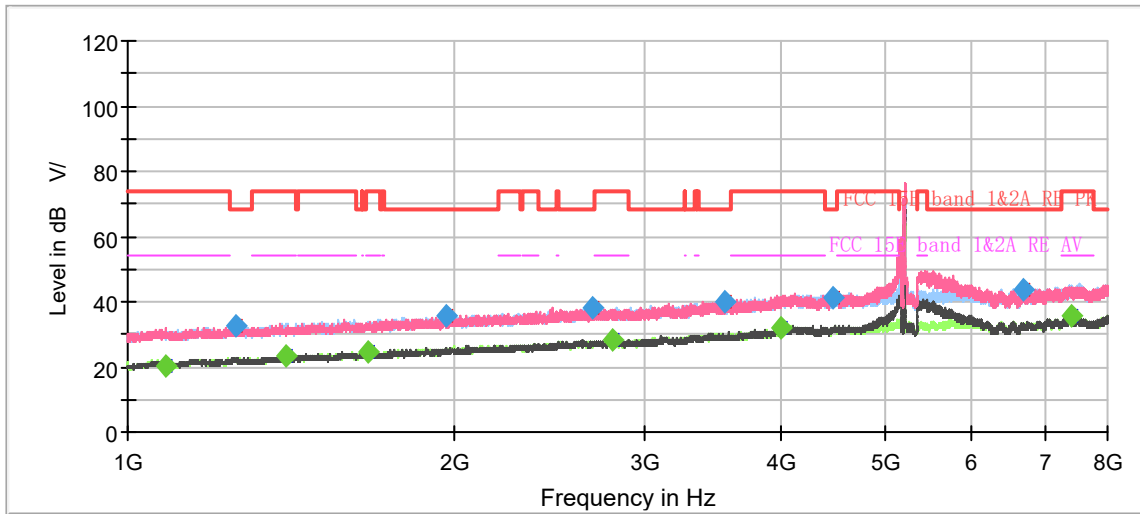
Radiates Emission from 8GHz to 18GHz



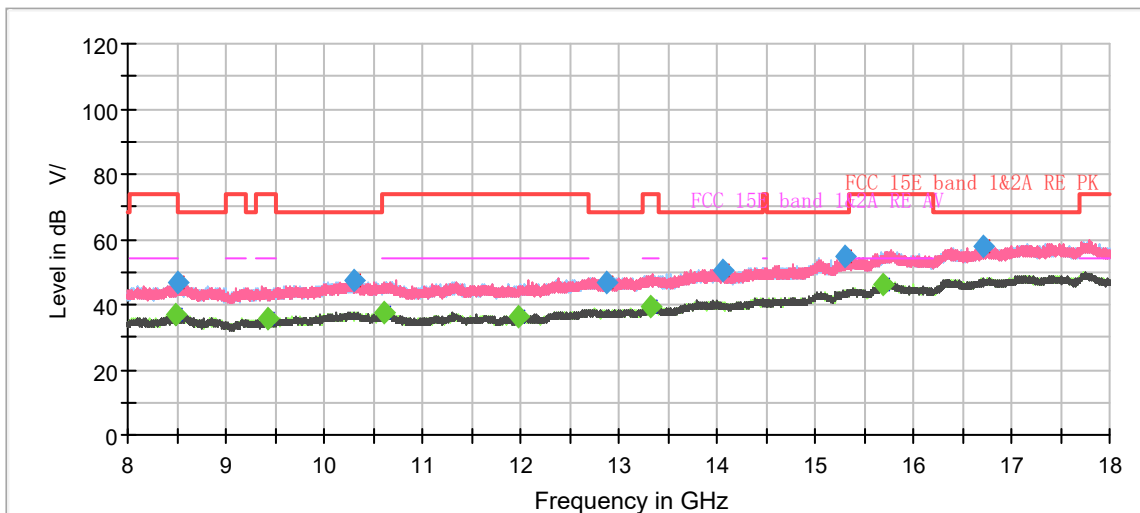
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1085.400000	---	21.50	54.00	32.50	200.0	H	171.0	-18.4
1251.766667	33.01	---	68.20	35.19	200.0	V	44.0	-17.3
1392.000000	---	23.44	54.00	30.56	200.0	V	262.0	-16.3
1685.300000	---	25.20	54.00	28.80	200.0	V	11.0	-14.7
1886.433333	36.21	---	68.20	31.99	100.0	V	221.0	-13.7
2609.066667	37.59	---	68.20	30.61	200.0	V	255.0	-9.8
2718.500000	---	28.55	54.00	25.45	200.0	H	157.0	-9.4
3511.133333	40.22	---	68.20	27.98	200.0	V	77.0	-6.1
3958.433333	---	31.96	54.00	22.04	200.0	V	11.0	-4.0
4432.800000	40.58	---	68.20	27.62	200.0	H	0.0	-3.2
6671.166667	43.70	---	68.20	24.50	100.0	V	227.0	0.3
7474.533333	---	35.39	54.00	18.61	100.0	H	126.0	1.3
15414.333333	---	44.82	54.00	9.18	200.0	V	46.0	13.2

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

## 802.11a CH40



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



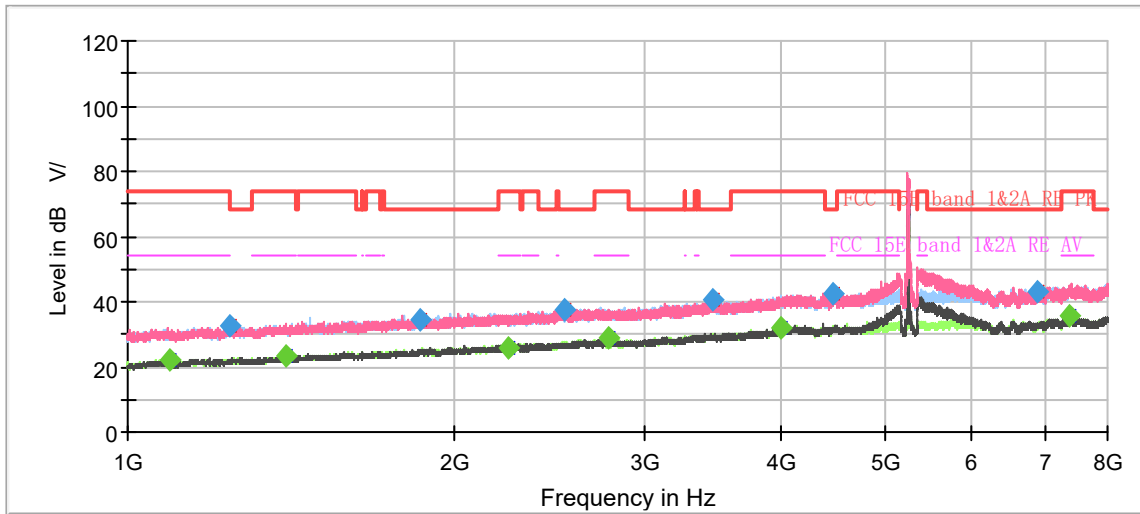
Radiates Emission from 8GHz to 18GHz



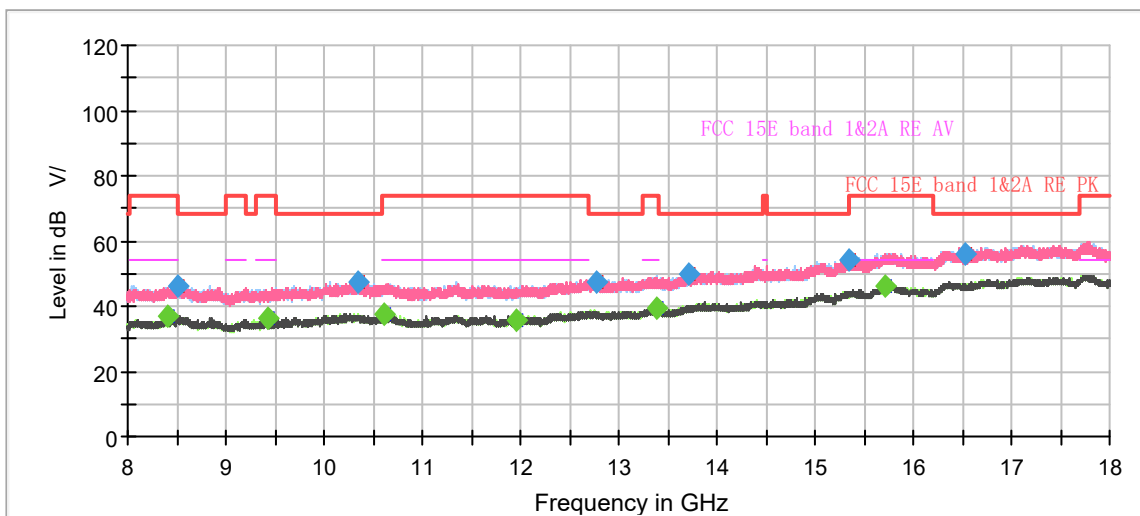
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1082.600000	---	20.04	54.00	33.96	200.0	V	0.0	-18.4
1258.766667	32.36	---	68.20	35.84	200.0	H	352.0	-17.2
1400.866667	---	23.48	54.00	30.52	200.0	V	37.0	-16.3
1667.333333	---	24.74	54.00	29.26	200.0	H	249.0	-14.8
1968.100000	35.45	---	68.20	32.75	200.0	H	216.0	-13.1
2682.800000	38.13	---	68.20	30.07	200.0	V	322.0	-9.5
2804.133333	---	28.10	54.00	25.91	100.0	H	0.0	-9.2
3551.500000	40.20	---	68.20	28.00	100.0	V	269.0	-6.0
3994.833333	---	31.85	54.00	22.15	100.0	V	309.0	-3.8
4459.633333	41.33	---	68.20	26.87	100.0	H	20.0	-3.1
6698.000000	43.77	---	68.20	24.43	200.0	V	91.0	0.3
7397.066667	---	35.52	54.00	18.48	100.0	V	336.0	1.4
15703.333333	---	46.32	54.00	7.68	100.0	H	131.0	13.8

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

802.11a CH48



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



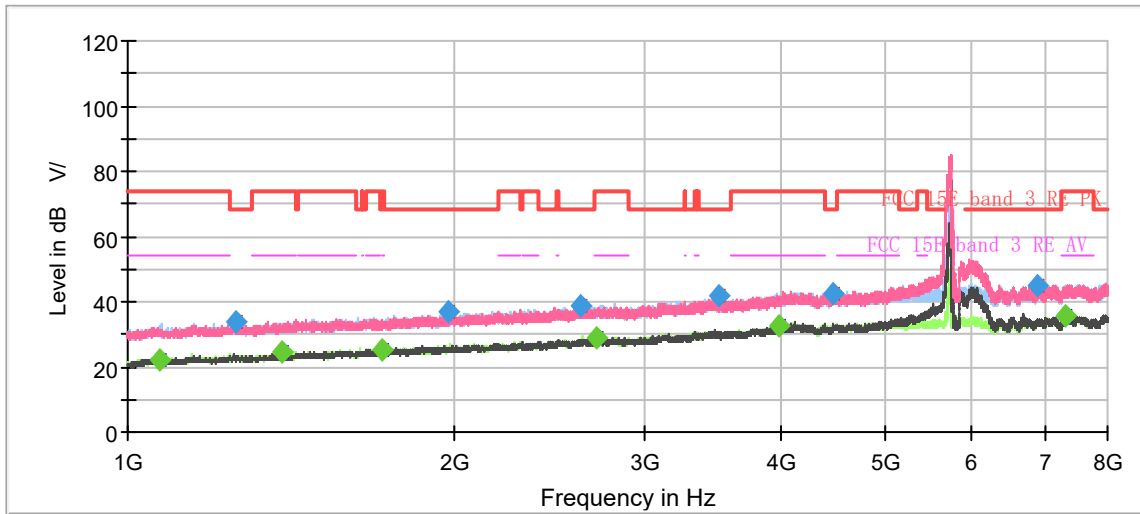
Radiates Emission from 8GHz to 18GHz



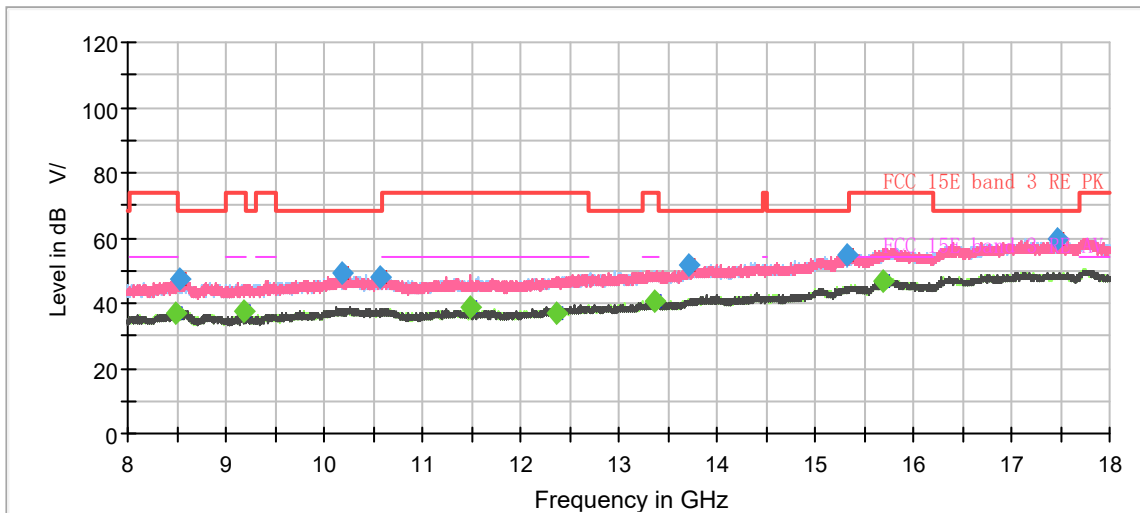
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1094.266667	---	21.99	54.00	32.01	100.0	V	311.0	-18.3
1240.566667	32.43	---	68.20	35.77	100.0	V	257.0	-17.4
1400.400000	---	23.50	54.00	30.50	100.0	H	121.0	-16.3
1858.900000	34.56	---	68.20	33.64	100.0	V	359.0	-13.8
2248.100000	---	26.13	54.00	27.87	200.0	H	298.0	-11.7
2522.033333	37.82	---	68.20	30.38	100.0	V	345.0	-10.3
2779.166667	---	28.62	54.00	25.38	100.0	H	101.0	-9.3
3460.966667	40.45	---	68.20	27.75	100.0	H	67.0	-6.3
3992.966667	---	31.71	54.00	22.29	100.0	V	152.0	-3.8
4464.300000	42.27	---	68.20	25.93	200.0	V	171.0	-3.1
6879.533333	42.81	---	68.20	25.39	200.0	H	60.0	0.5
7383.533333	---	35.47	54.00	18.53	200.0	H	152.0	1.4
15718.666667	---	46.33	54.00	7.67	100.0	V	91.0	13.9

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

802.11a CH149



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

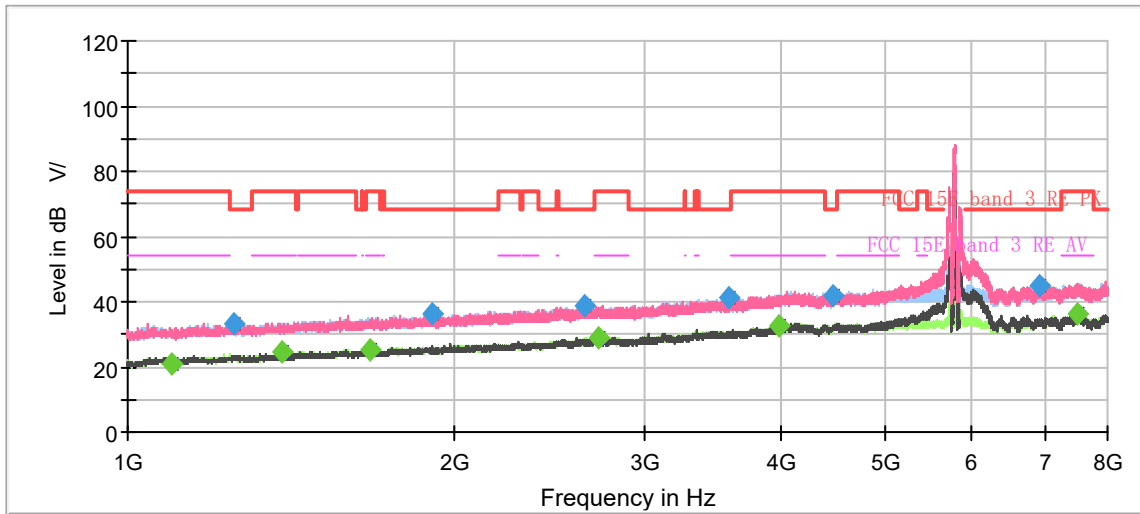


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1071.166667	---	21.95	54.00	32.05	100.0	H	240.0	-18.5
1259.233333	33.69	---	68.20	34.51	200.0	H	314.0	-17.2
1389.900000	---	24.31	54.00	29.69	200.0	H	306.0	-16.4
1719.366667	---	25.54	54.00	28.46	100.0	H	27.0	-14.5
1972.766667	36.63	---	68.20	31.57	200.0	V	213.0	-13.1
2611.400000	38.59	---	68.20	29.61	100.0	V	0.0	-9.8
2705.200000	---	29.05	54.00	24.95	100.0	V	219.0	-9.4
3508.100000	41.65	---	68.20	26.55	100.0	H	62.0	-6.1
3981.300000	---	32.60	54.00	21.40	100.0	H	120.0	-3.9
4471.066667	42.51	---	68.20	25.69	200.0	H	297.0	-3.1
6880.466667	44.97	---	68.20	23.23	200.0	V	10.0	0.5
7328.233333	---	35.64	54.00	18.36	200.0	H	340.0	1.3
15696.333333	---	46.93	54.00	7.07	100.0	H	161.0	13.8
17476.666667	59.61	---	68.20	8.59	200.0	H	282.0	18.2

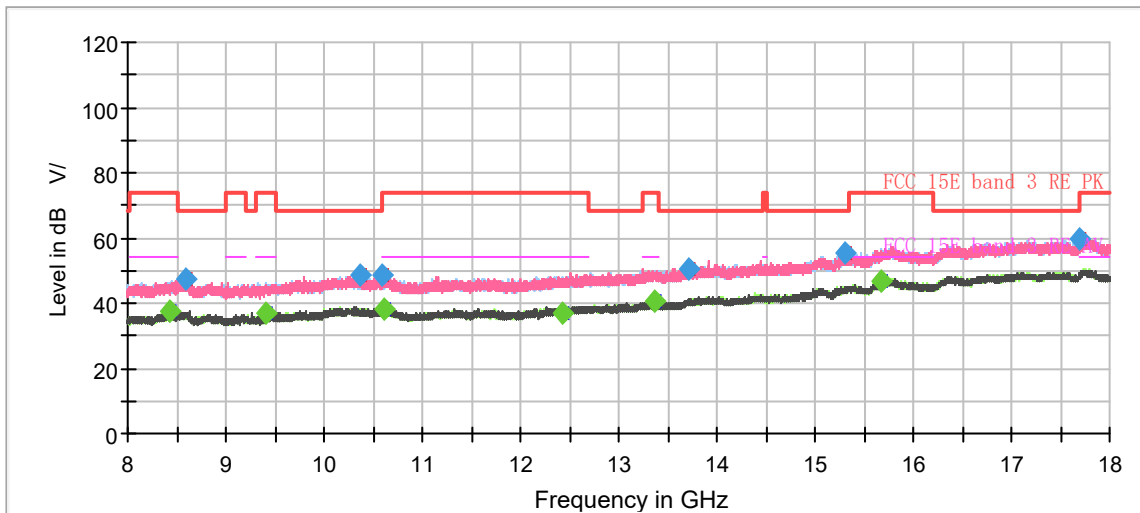
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11a CH157



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

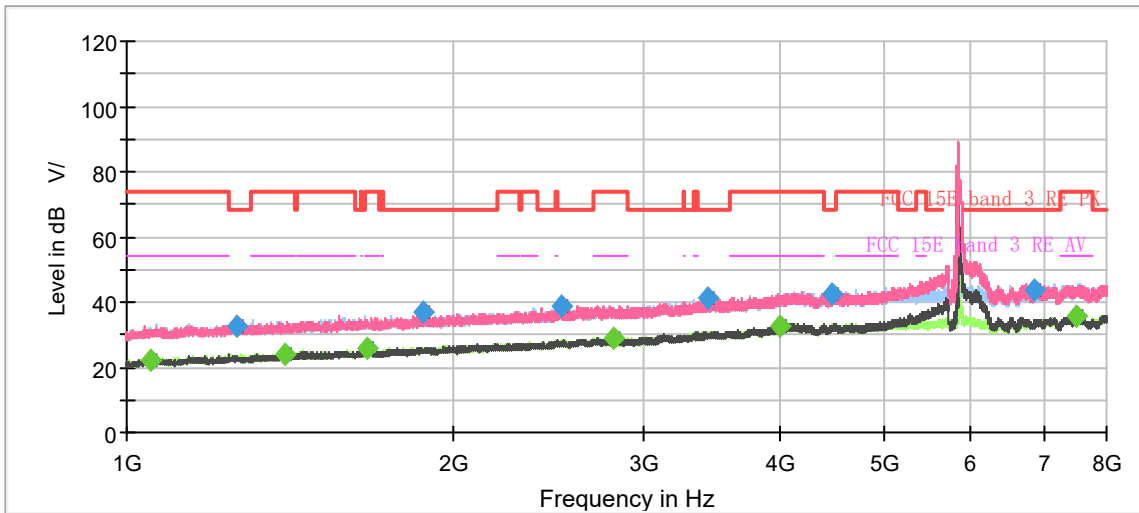


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1099.166667	---	21.20	54.00	32.80	100.0	H	130.0	-18.3
1253.166667	33.15	---	68.20	35.05	200.0	V	88.0	-17.3
1390.133333	---	24.31	54.00	29.69	100.0	V	59.0	-16.4
1674.100000	---	25.44	54.00	28.56	200.0	V	181.0	-14.7
1908.600000	36.06	---	68.20	32.14	100.0	H	217.0	-13.5
2640.333333	38.49	---	68.20	29.71	100.0	V	0.0	-9.7
2718.500000	---	28.86	54.00	25.14	100.0	V	325.0	-9.4
3583.000000	40.94	---	68.20	27.26	100.0	V	238.0	-5.9
3979.200000	---	32.56	54.00	21.44	100.0	V	33.0	-3.9
4472.700000	41.73	---	68.20	26.47	100.0	H	342.0	-3.1
6908.933333	44.80	---	68.20	23.40	200.0	V	155.0	0.6
7498.566667	---	36.06	54.00	17.94	100.0	V	179.0	1.3
15679.000000	---	46.73	54.00	7.27	100.0	V	284.0	13.8
17698.000000	59.75	---	68.20	8.45	100.0	H	132.0	18.5

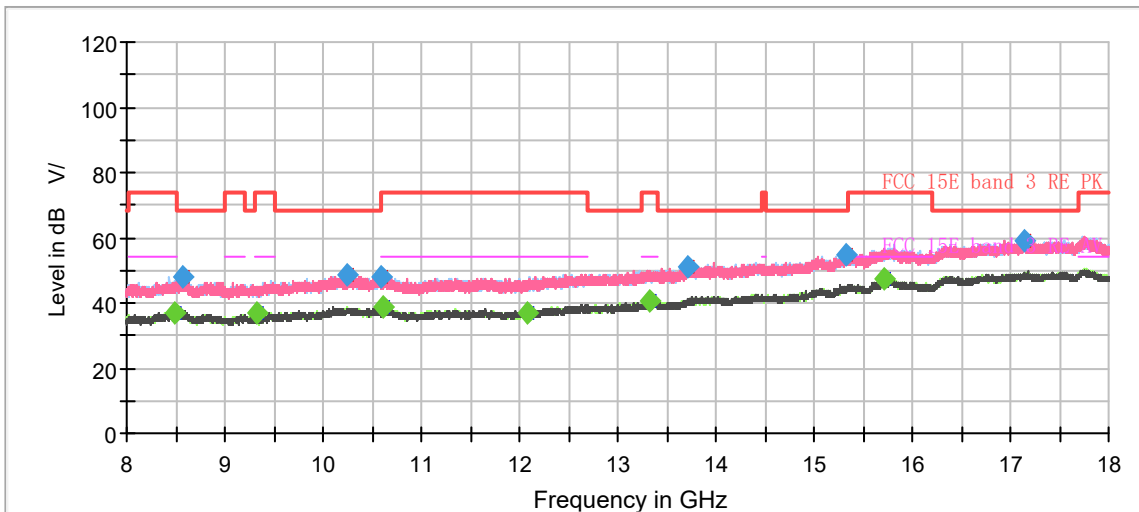
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11a CH165



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



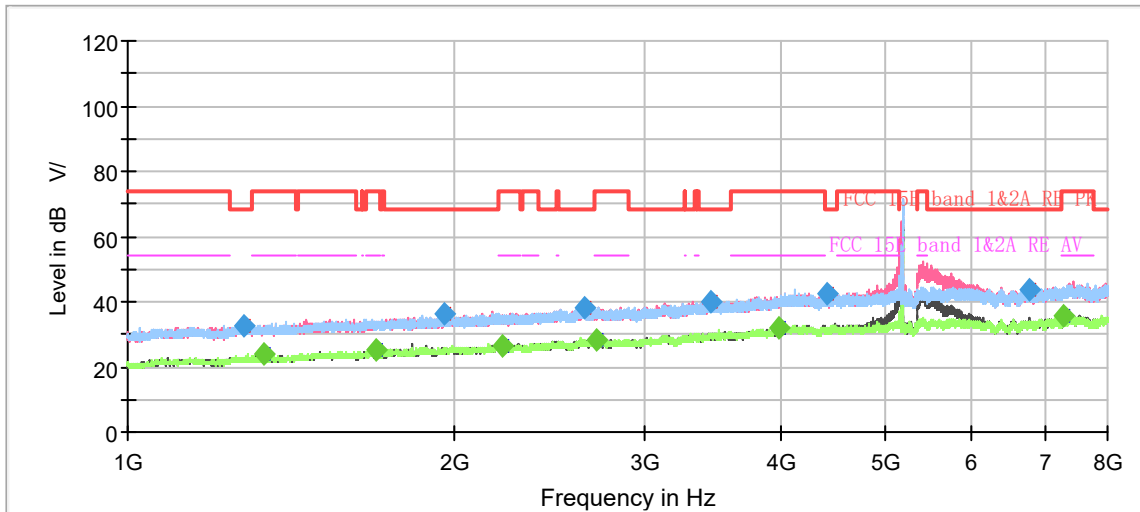
Radiates Emission from 8GHz to 18GHz



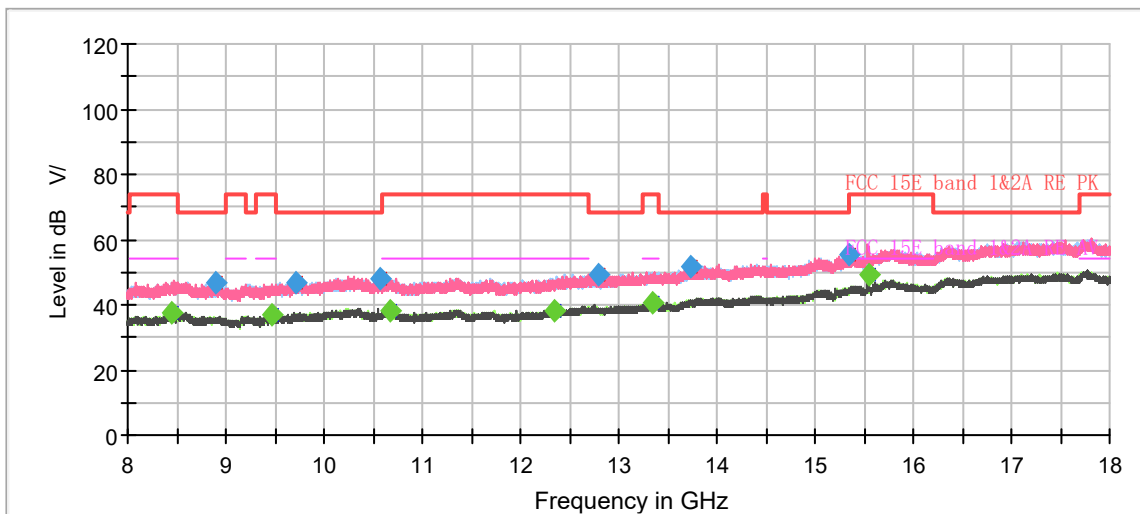
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1052.733333	---	22.31	54.00	31.69	200.0	H	262.0	-18.6
1264.833333	32.89	---	68.20	35.31	200.0	V	0.0	-17.2
1401.800000	---	24.24	54.00	29.76	200.0	V	37.0	-16.3
1664.766667	---	25.69	54.00	28.31	100.0	H	69.0	-14.8
1874.300000	36.70	---	68.20	31.50	100.0	V	233.0	-13.7
2519.466667	38.90	---	68.20	29.30	100.0	V	308.0	-10.3
2810.433333	---	28.98	54.00	25.02	100.0	V	266.0	-9.2
3431.333333	41.09	---	68.20	27.11	100.0	V	359.0	-6.4
3998.800000	---	32.37	54.00	21.63	100.0	H	357.0	-3.7
4472.000000	42.69	---	68.20	25.51	100.0	V	249.0	-3.1
6853.866667	43.58	---	68.20	24.63	200.0	V	70.0	0.5
7509.533333	---	35.58	54.00	18.42	200.0	V	29.0	1.3
1052.733333	---	22.31	54.00	31.69	200.0	H	262.0	-18.6
1264.833333	32.89	---	68.20	35.31	200.0	V	0.0	-17.2
15715.666667	---	47.09	54.00	6.91	100.0	H	8.0	13.9
17151.333333	59.06	---	68.20	9.14	100.0	H	187.0	17.9

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

802.11ac (VHT20) CH36



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

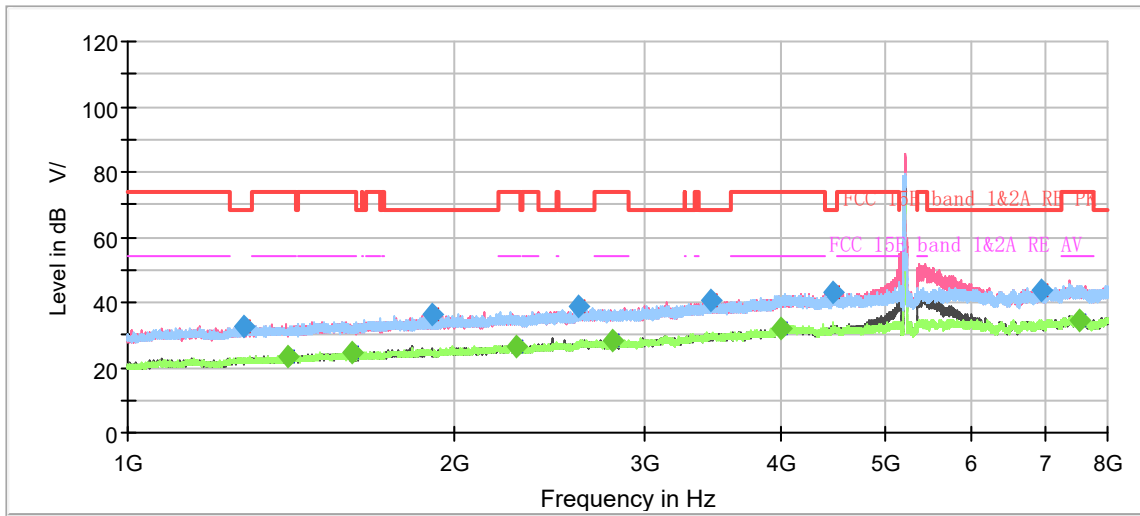


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1281.400000	32.64	---	68.20	35.56	200.0	V	200.0	-17.1
1337.866667	---	23.81	54.00	30.19	100.0	H	171.0	-16.8
1696.266667	---	24.98	54.00	29.02	100.0	V	353.0	-14.6
1955.033333	36.20	---	68.20	32.00	100.0	H	184.0	-13.2
2211.700000	---	26.48	54.00	27.52	200.0	H	3.0	-11.8
2639.400000	38.08	---	68.20	30.12	200.0	V	221.0	-9.7
2708.700000	---	28.50	54.00	25.50	100.0	H	34.0	-9.4
3450.933333	40.16	---	68.20	28.04	200.0	V	125.0	-6.3
3985.733333	---	32.21	54.00	21.79	200.0	H	328.0	-3.8
4413.666667	42.21	---	68.20	25.99	100.0	V	325.0	-3.3
6790.400000	43.88	---	68.20	24.32	100.0	H	157.0	0.4
7278.533333	---	35.44	54.00	18.56	200.0	H	1.0	1.2
15541.000000	---	49.13	54.00	4.87	200.0	V	71.0	13.5

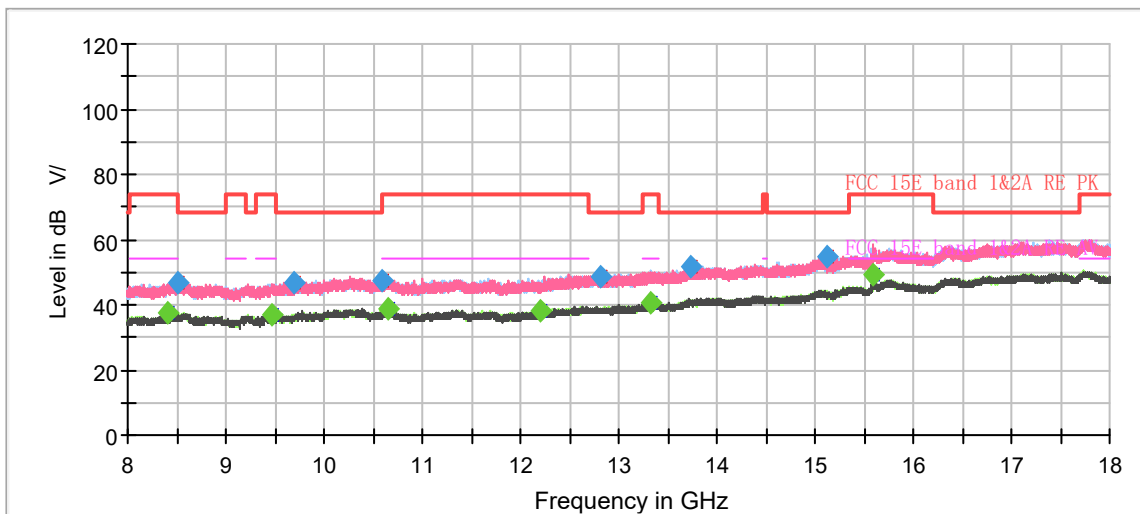
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



### 802.11ac (VHT20) CH40



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

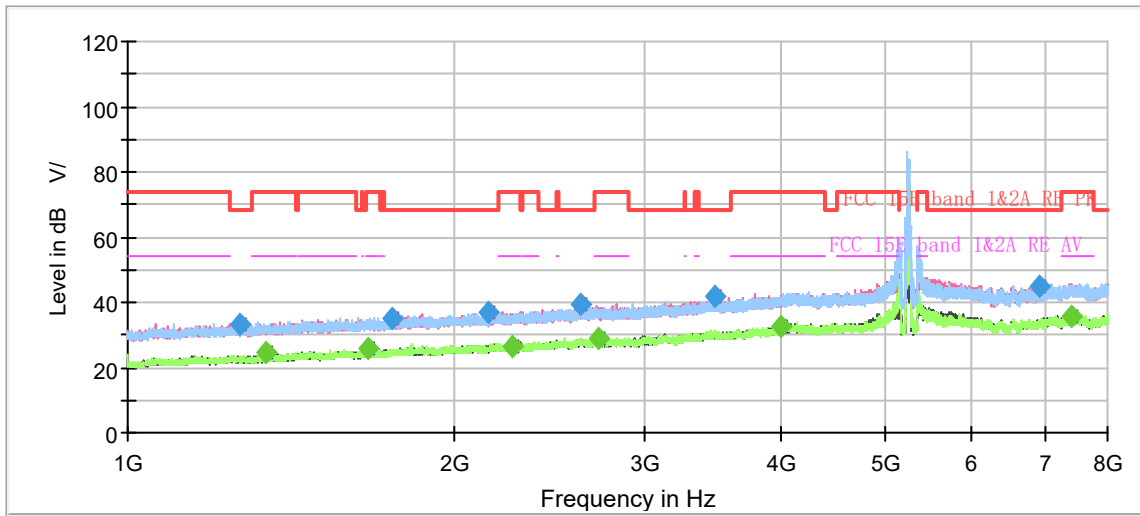


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1281.866667	32.71	---	68.20	35.49	100.0	H	119.0	-17.1
1408.100000	---	23.36	54.00	30.64	200.0	V	286.0	-16.2
1612.733333	---	24.64	54.00	29.36	200.0	H	0.0	-15.0
1910.700000	36.09	---	68.20	32.11	200.0	V	51.0	-13.5
2285.433333	---	26.59	54.00	27.41	100.0	V	212.0	-11.6
2600.200000	38.77	---	68.20	29.43	100.0	V	241.0	-9.9
2799.466667	---	28.37	54.00	25.63	100.0	H	328.0	-9.2
3442.766667	40.42	---	68.20	27.78	200.0	V	17.0	-6.4
3997.166667	---	31.94	54.00	22.06	100.0	V	192.0	-3.8
4476.900000	42.97	---	68.20	25.23	100.0	V	247.0	-3.1
6940.200000	43.63	---	68.20	24.57	100.0	H	139.0	0.6
7548.500000	---	34.45	54.00	19.55	200.0	V	51.0	1.3
15601.000000	---	49.51	54.00	4.49	100.0	V	189.0	13.6

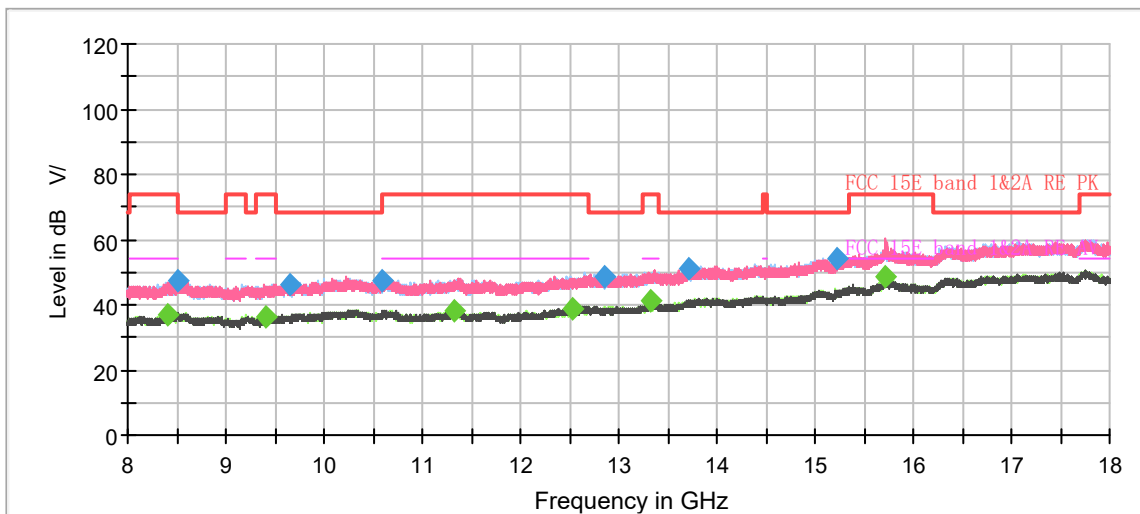
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11ac (VHT20) CH48



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



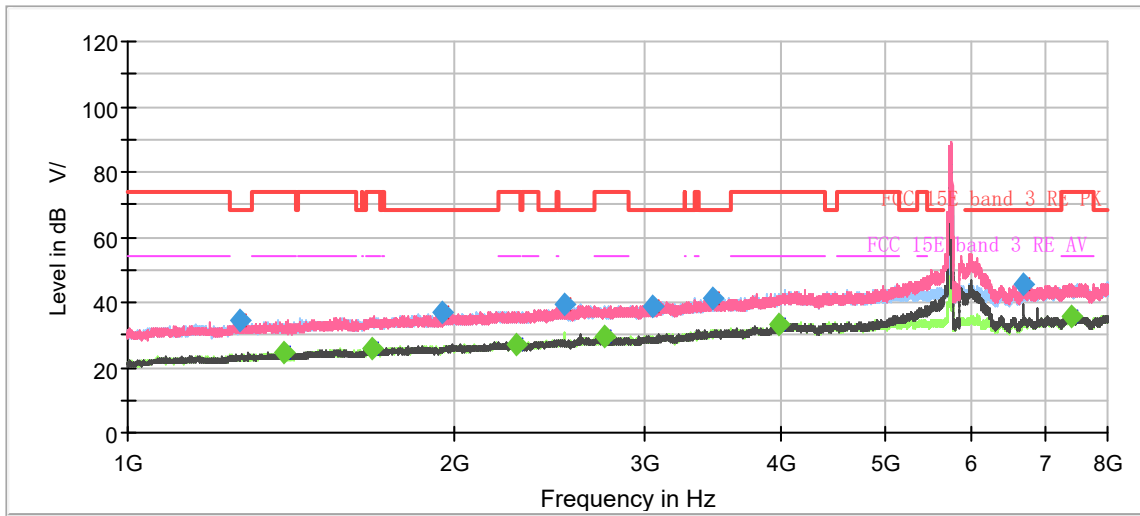
Radiates Emission from 8GHz to 18GHz



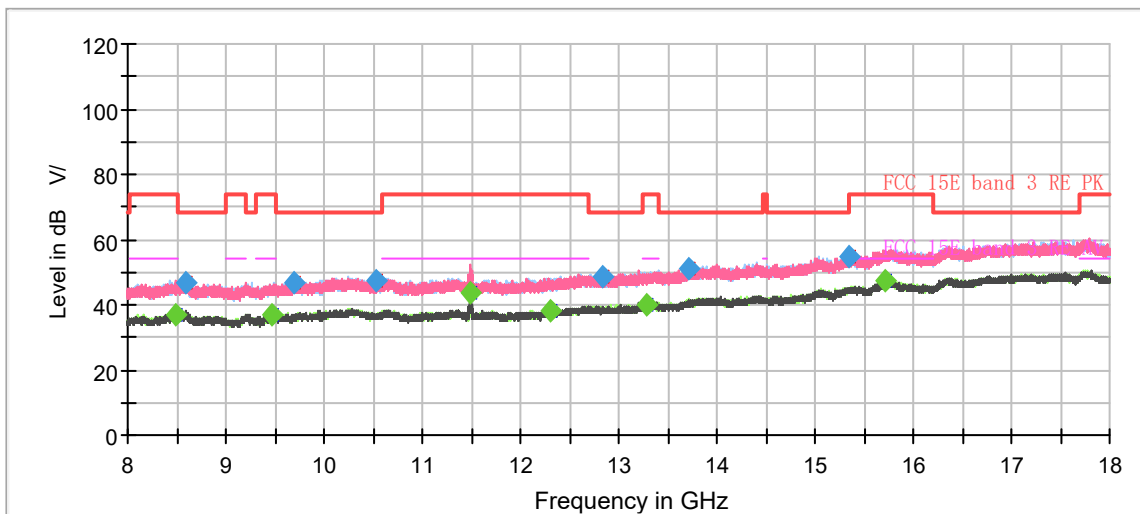
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1271.133333	33.27	---	68.20	34.93	200.0	H	358.0	-17.2
1338.333333	---	24.54	54.00	29.46	200.0	H	7.0	-16.8
1665.466667	---	25.56	54.00	28.44	200.0	H	192.0	-14.8
1751.800000	35.31	---	68.20	32.89	200.0	H	345.0	-14.3
2151.733333	37.22	---	68.20	30.98	200.0	V	57.0	-12.1
2265.366667	---	26.62	54.00	27.38	100.0	V	350.0	-11.6
2617.700000	39.11	---	68.20	29.09	100.0	H	213.0	-9.8
2721.766667	---	29.05	54.00	24.95	100.0	H	54.0	-9.4
3481.500000	41.90	---	68.20	26.30	100.0	H	200.0	-6.2
3994.833333	---	32.60	54.00	21.40	200.0	H	172.0	-3.8
6910.100000	44.71	---	68.20	23.49	200.0	V	105.0	0.6
7414.333333	---	35.52	54.00	18.48	100.0	V	66.0	1.4
15718.868334	---	48.56	54.00	5.44	100.0	V	46.0	13.9

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

802.11ac (VHT20) CH149



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



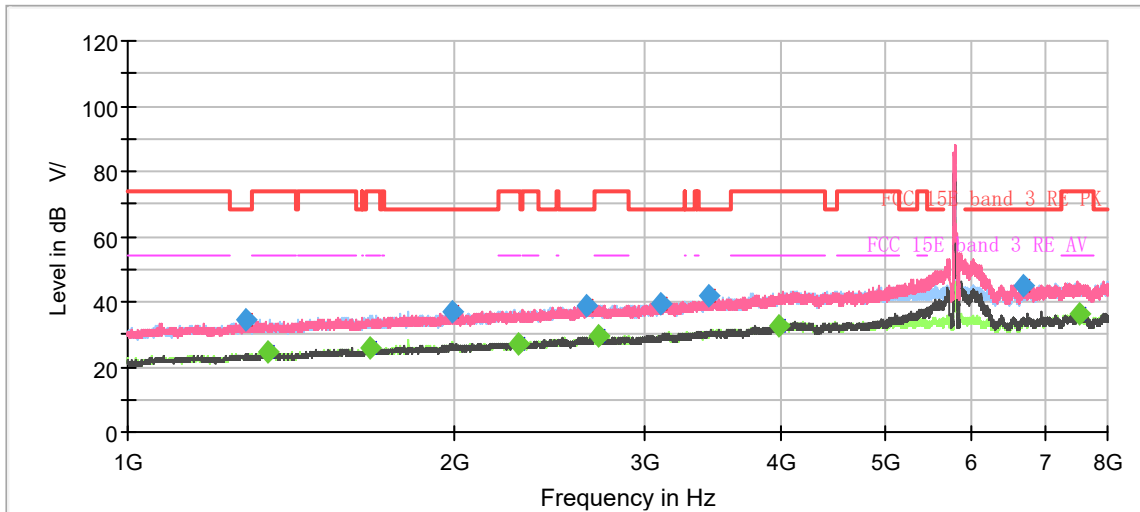
Radiates Emission from 8GHz to 18GHz



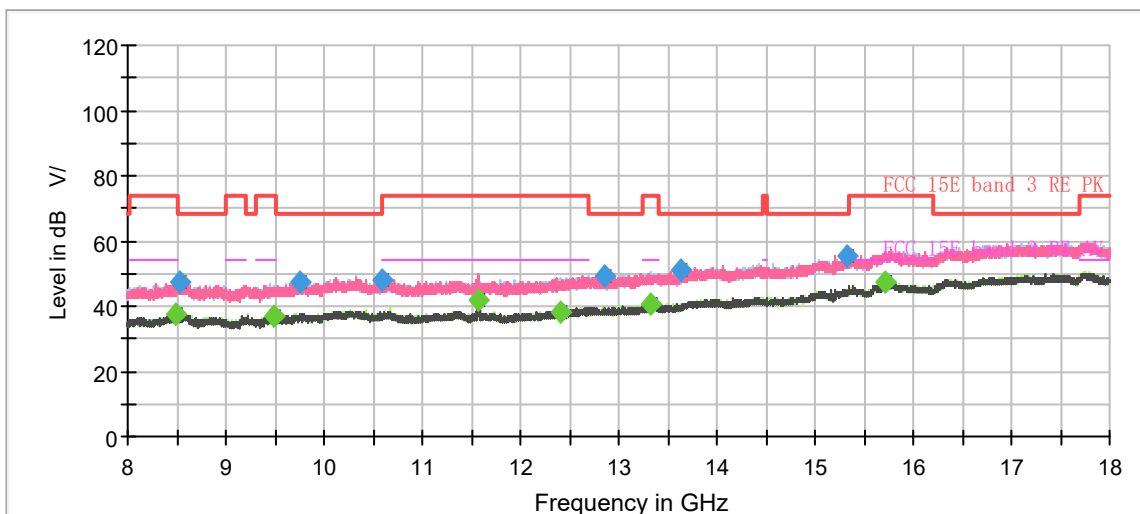
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1270.666667	34.55	---	68.20	33.65	200.0	V	94.0	-17.2
1390.366667	---	24.47	54.00	29.53	100.0	H	5.0	-16.4
1679.466667	---	26.04	54.00	27.96	100.0	H	5.0	-14.7
1951.533333	36.67	---	68.20	31.53	100.0	V	0.0	-13.2
2283.100000	---	27.36	54.00	26.64	100.0	H	220.0	-11.6
2526.233333	39.39	---	68.20	28.81	200.0	H	191.0	-10.2
2747.900000	---	29.30	54.00	24.70	200.0	V	0.0	-9.3
3049.133333	39.06	---	68.20	29.14	200.0	H	337.0	-8.1
3459.566667	41.11	---	68.20	27.09	100.0	V	83.0	-6.3
3990.166667	---	33.41	54.00	20.59	200.0	H	309.0	-3.8
6704.300000	45.76	---	68.20	22.44	200.0	V	187.0	0.3
7409.200000	---	35.79	54.00	18.21	200.0	H	309.0	1.4
15705.000000	---	47.24	54.00	6.76	200.0	H	257.0	13.9

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

802.11ac (VHT20) CH157



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



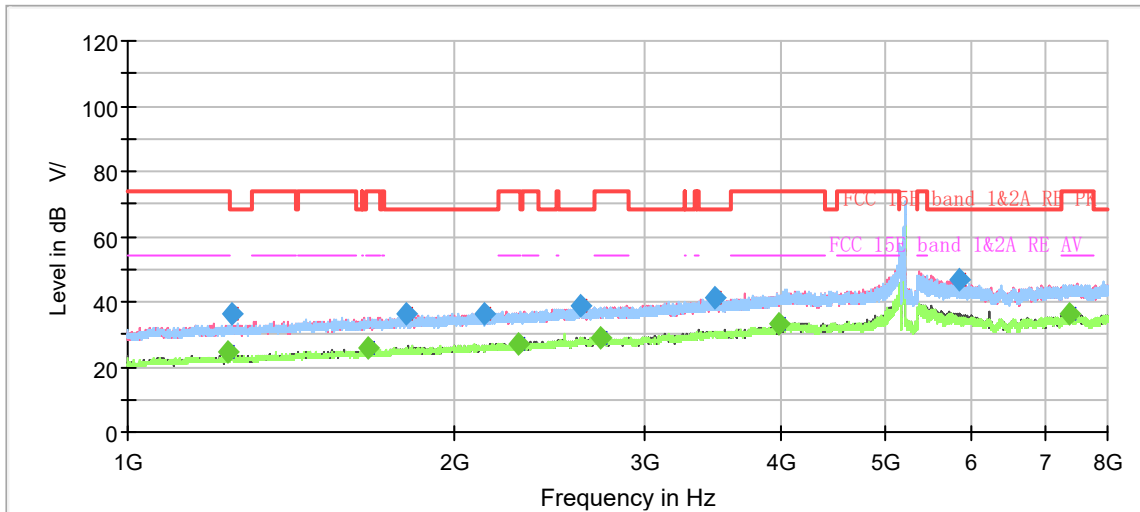
Radiates Emission from 8GHz to 18GHz



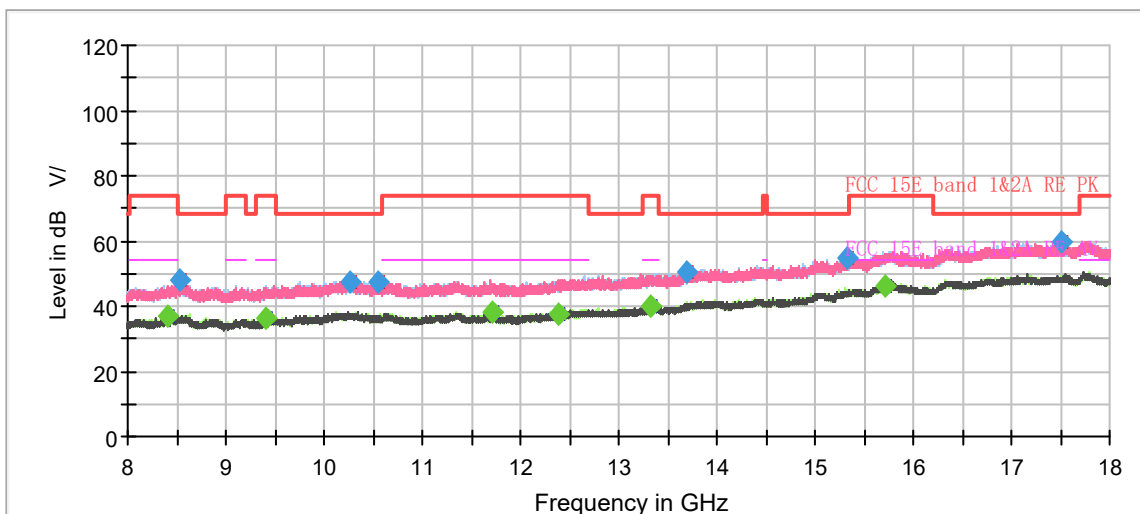
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1284.900000	34.36	---	68.20	33.84	100.0	H	8.0	-17.1
1349.300000	---	24.35	54.00	29.65	100.0	H	357.0	-16.7
1671.766667	---	25.79	54.00	28.21	100.0	H	319.0	-14.8
1991.666667	37.14	---	68.20	31.06	100.0	H	16.0	-13.0
2295.466667	---	26.82	54.00	27.18	100.0	H	16.0	-11.5
2650.133333	38.97	---	68.20	29.23	100.0	V	332.0	-9.6
2712.666667	---	29.27	54.00	24.73	200.0	H	250.0	-9.4
3096.266667	39.51	---	68.20	28.69	100.0	V	299.0	-7.8
3437.633333	41.56	---	68.20	26.64	200.0	V	224.0	-6.4
3985.966667	---	32.88	54.00	21.12	200.0	H	233.0	-3.8
6694.733333	44.75	---	68.20	23.45	200.0	V	120.0	0.3
7524.233333	---	36.12	54.00	17.88	100.0	V	264.0	1.3
15716.000000	---	47.25	54.00	6.75	200.0	V	127.0	13.9

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

802.11ac (VHT40) CH38



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

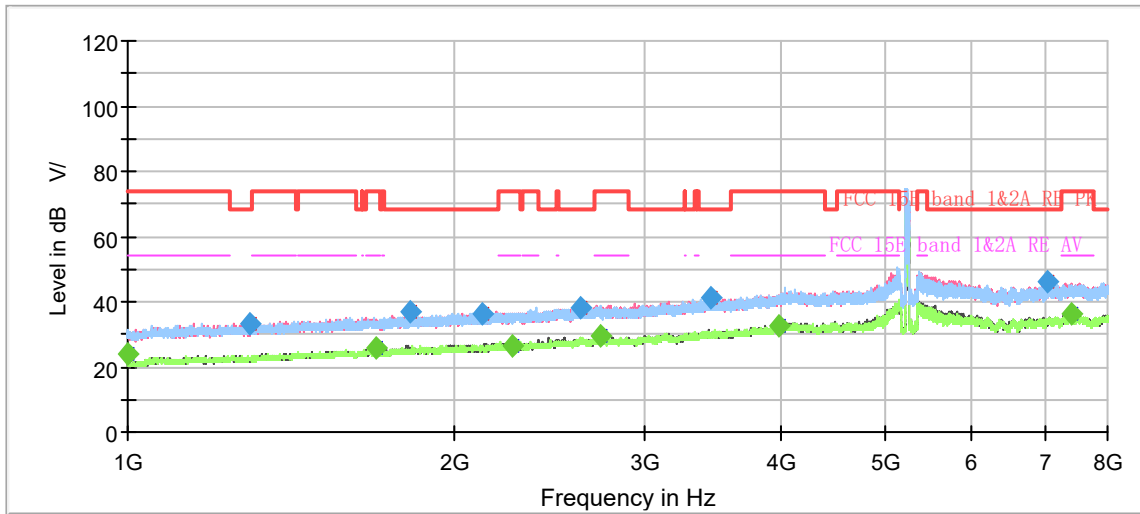


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1238.000000	---	24.46	54.00	29.54	100.0	V	166.0	-17.4
1249.666667	36.54	---	68.20	31.66	200.0	V	122.0	-17.3
1662.666667	---	25.56	54.00	28.44	200.0	H	359.0	-14.8
1802.433333	36.07	---	68.20	32.13	100.0	H	95.0	-14.0
2127.933333	36.58	---	68.20	31.62	100.0	V	129.0	-12.3
2293.600000	---	26.99	54.00	27.01	100.0	V	352.0	-11.5
2617.000000	38.61	---	68.20	29.59	200.0	H	176.0	-9.8
2724.800000	---	28.90	54.00	25.10	200.0	H	111.0	-9.4
3473.566667	41.46	---	68.20	26.74	200.0	V	206.0	-6.2
3988.066667	---	32.97	54.00	21.03	200.0	H	352.0	-3.8
5829.766667	46.99	---	68.20	21.21	200.0	V	184.0	0.3
7388.200000	---	36.04	54.00	17.96	200.0	V	116.0	1.4
15713.333333	---	46.33	54.00	7.67	200.0	H	60.0	13.9
17502.000000	59.45	---	68.20	8.75	200.0	H	240.0	18.3

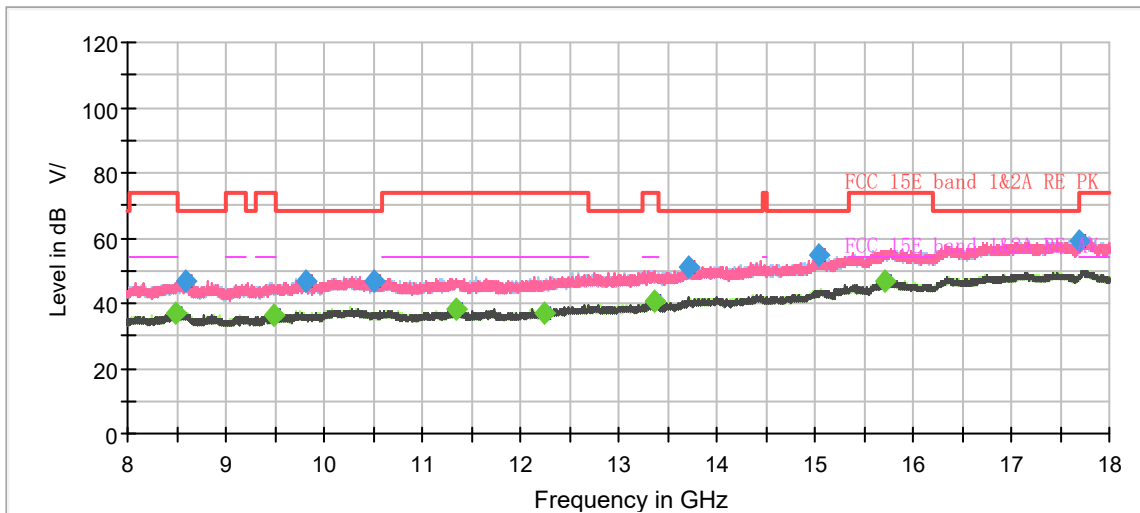
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11ac (VHT40) CH46



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



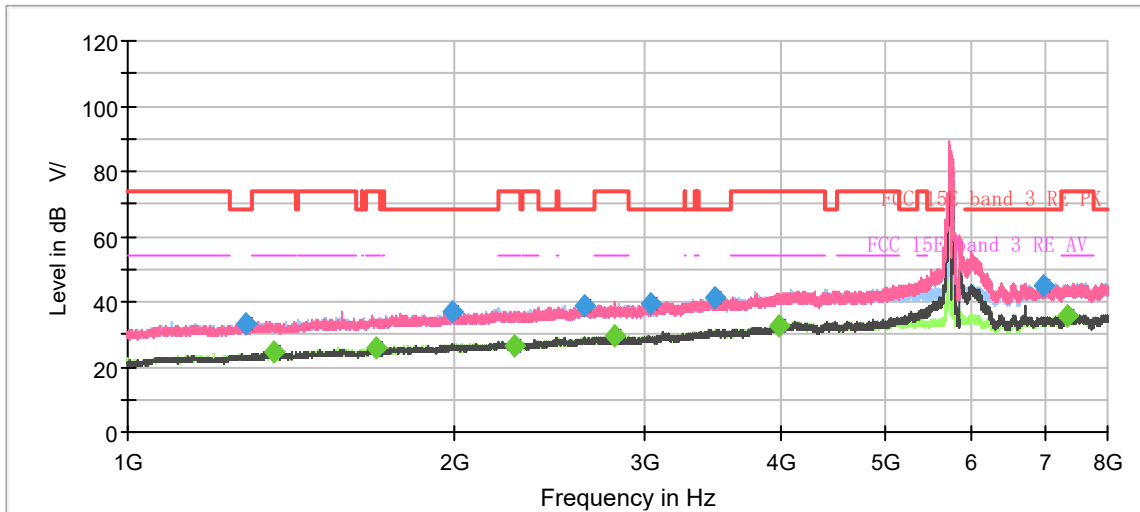
Radiates Emission from 8GHz to 18GHz



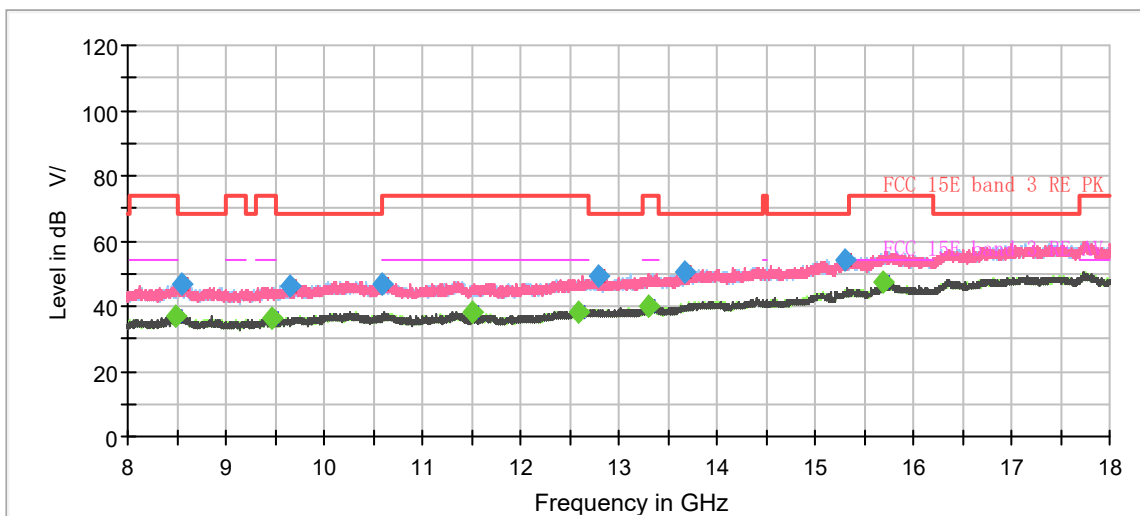
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1000.000000	---	24.18	54.00	29.82	200.0	H	104.0	-19.1
1294.933333	32.97	---	68.20	35.23	100.0	V	242.0	-17.0
1692.300000	---	25.62	54.00	28.38	100.0	H	229.0	-14.7
1819.466667	36.80	---	68.20	31.40	100.0	V	357.0	-13.9
2123.500000	36.23	---	68.20	31.97	200.0	H	322.0	-12.3
2259.066667	---	26.74	54.00	27.26	100.0	H	0.0	-11.7
2615.833333	38.32	---	68.20	29.88	200.0	H	228.0	-9.8
2722.933333	---	29.48	54.00	24.52	200.0	H	349.0	-9.4
3453.733333	40.96	---	68.20	27.24	100.0	H	175.0	-6.3
3978.266667	---	32.79	54.00	21.21	100.0	V	0.0	-3.9
7047.300000	45.92	---	68.20	22.28	100.0	H	6.0	0.8
7407.333333	---	36.03	54.00	17.97	100.0	V	167.0	1.4

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

802.11ac (VHT40) CH151



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



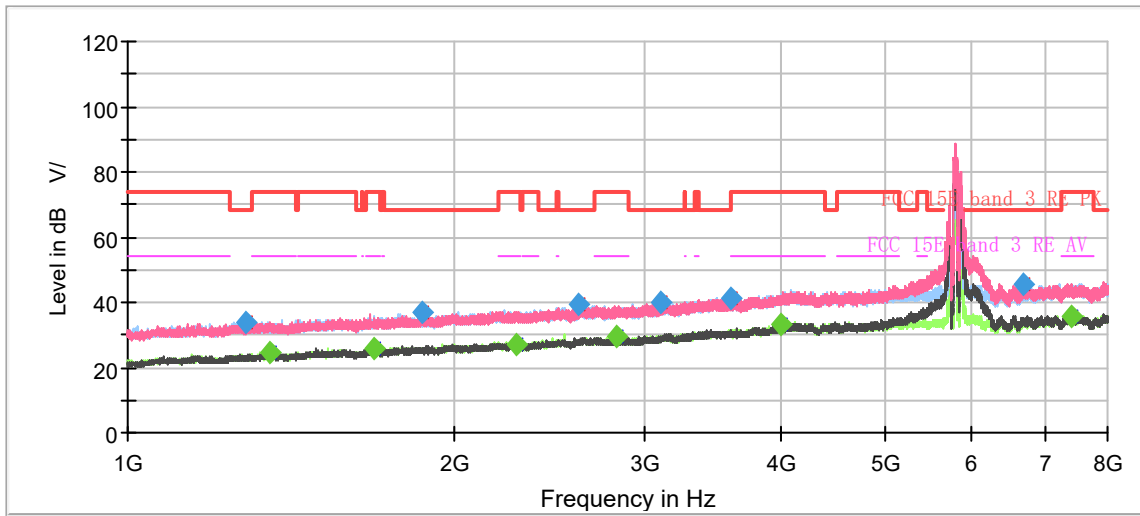
Radiates Emission from 8GHz to 18GHz



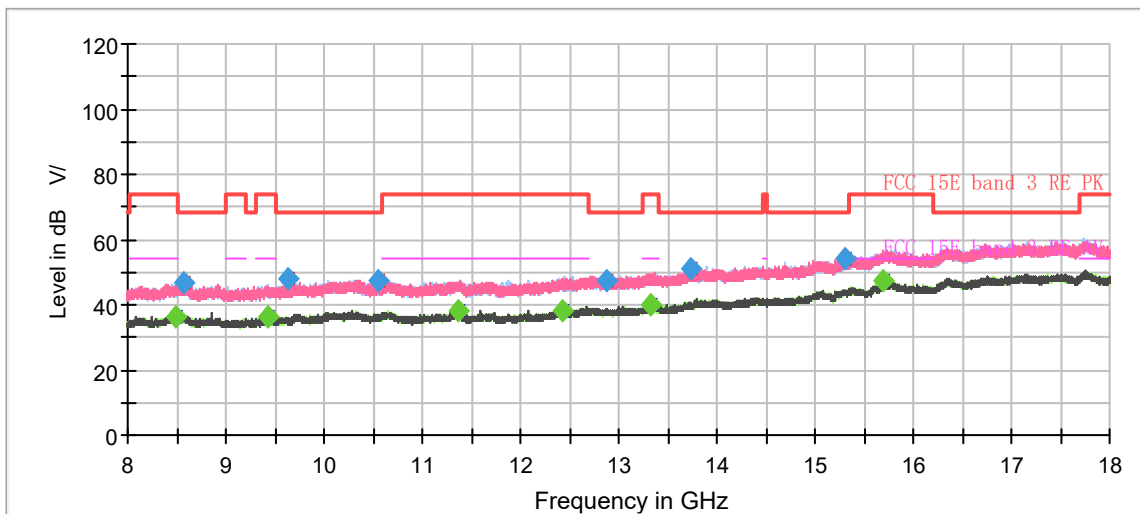
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1284.900000	33.52	---	68.20	34.68	200.0	V	165.0	-17.1
1361.666667	---	24.71	54.00	29.29	200.0	H	35.0	-16.6
1696.500000	---	26.02	54.00	27.98	200.0	H	357.0	-14.6
1989.100000	36.65	---	68.20	31.55	100.0	H	342.0	-13.0
2275.633333	---	26.71	54.00	27.29	200.0	H	335.0	-11.6
2634.966667	38.78	---	68.20	29.42	100.0	H	249.0	-9.7
2805.533333	---	29.27	54.00	24.73	200.0	V	34.0	-9.2
3028.600000	39.52	---	68.20	28.68	200.0	V	259.0	-8.2
3479.166667	41.15	---	68.20	27.05	100.0	H	342.0	-6.2
3988.066667	---	32.56	54.00	21.44	200.0	V	0.0	-3.8
6973.100000	44.72	---	68.20	23.48	100.0	H	147.0	0.6
7340.133333	---	35.84	54.00	18.16	200.0	V	318.0	1.3

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

802.11ac (VHT40) CH159



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



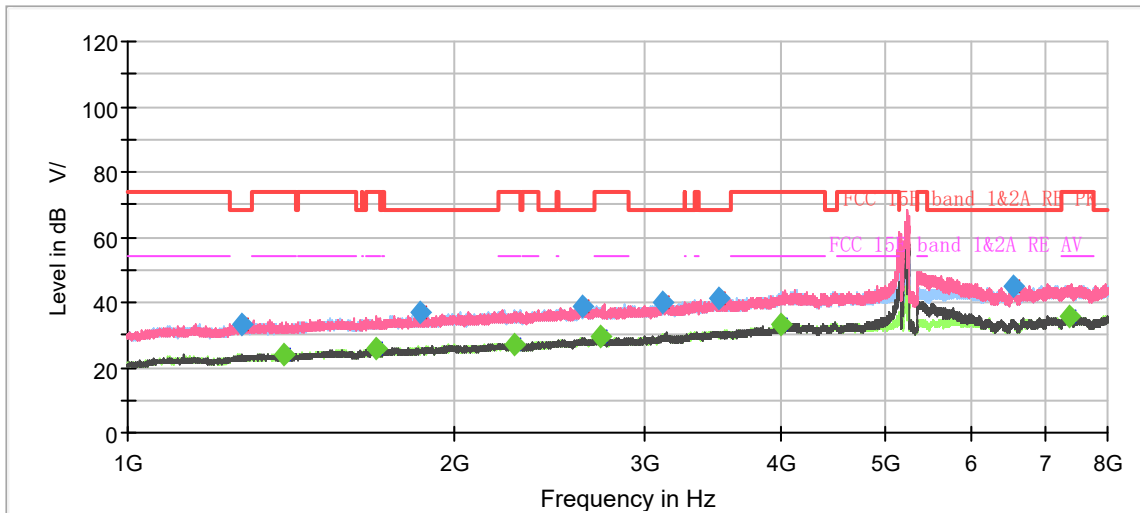
Radiates Emission from 8GHz to 18GHz



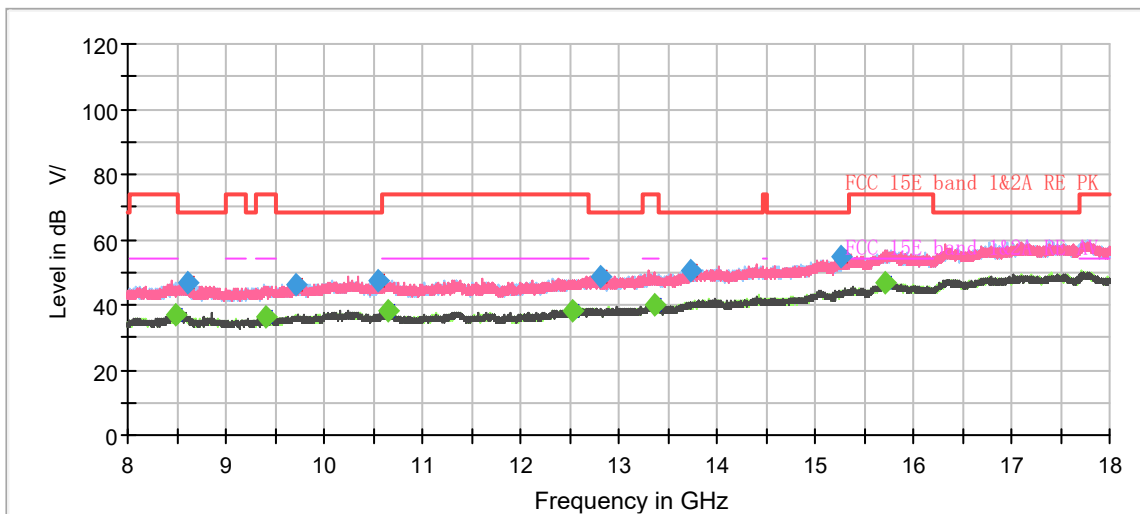
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1282.566667	33.81	---	68.20	34.39	100.0	H	350.0	-17.1
1351.633333	---	24.77	54.00	29.23	200.0	H	9.0	-16.7
1686.933333	---	25.72	54.00	28.28	100.0	H	359.0	-14.7
1864.966667	36.92	---	68.20	31.28	200.0	V	0.0	-13.7
2280.066667	---	27.35	54.00	26.65	100.0	V	45.0	-11.6
2608.366667	39.56	---	68.20	28.64	100.0	H	299.0	-9.8
2823.966667	---	29.28	54.00	24.72	200.0	H	308.0	-9.2
3097.200000	40.25	---	68.20	27.95	200.0	H	325.0	-7.8
3594.433333	41.20	---	68.20	27.00	200.0	H	66.0	-5.8
3998.800000	---	33.24	54.00	20.76	100.0	V	172.0	-3.7
6691.933333	45.25	---	68.20	22.95	200.0	V	241.0	0.3
7397.533333	---	35.86	54.00	18.14	200.0	H	100.0	1.4

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

802.11ac (VHT80) CH42



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

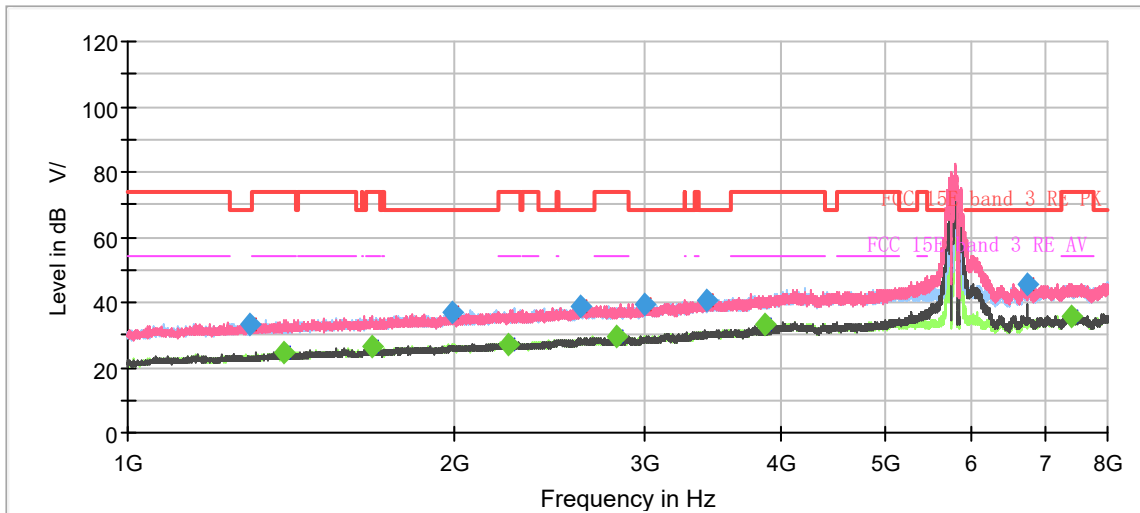


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1273.233333	33.27	---	68.20	34.93	100.0	H	39.0	-17.1
1392.000000	---	24.27	54.00	29.73	200.0	V	201.0	-16.3
1693.700000	---	25.61	54.00	28.39	100.0	H	180.0	-14.6
1861.000000	36.75	---	68.20	31.45	200.0	V	303.0	-13.8
2274.700000	---	27.11	54.00	26.89	200.0	H	61.0	-11.6
2620.266667	38.64	---	68.20	29.56	100.0	H	0.0	-9.8
2729.700000	---	29.31	54.00	24.69	100.0	H	32.0	-9.4
3109.800000	39.86	---	68.20	28.34	100.0	V	268.0	-7.8
3512.533333	41.09	---	68.20	27.11	200.0	H	172.0	-6.1
3993.900000	---	32.97	54.00	21.03	200.0	V	153.0	-3.8
6558.933333	45.18	---	68.20	23.02	100.0	H	166.0	0.2
7387.266667	---	35.89	54.00	18.11	100.0	V	213.0	1.4

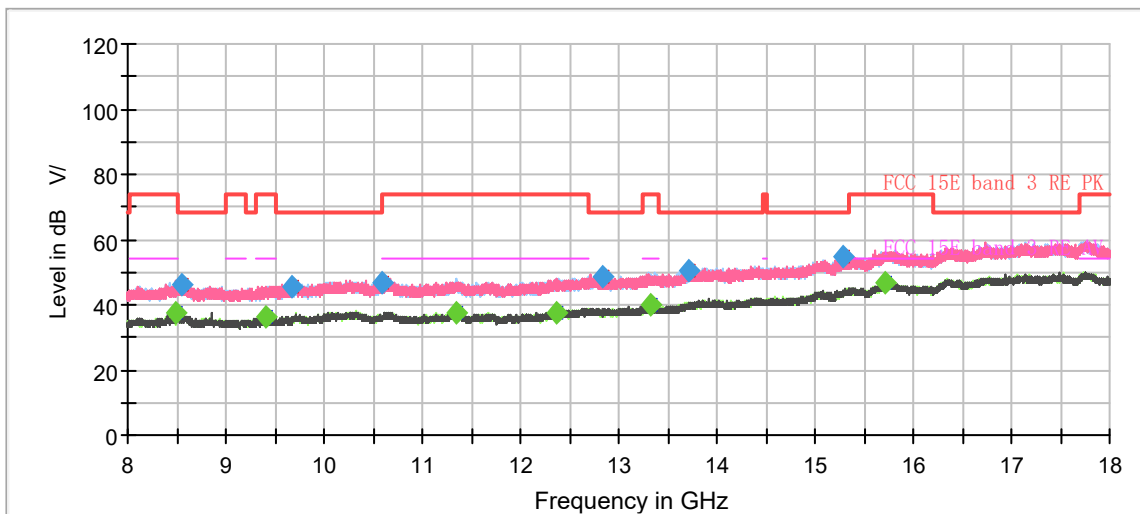
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11ac (VHT80) CH155



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



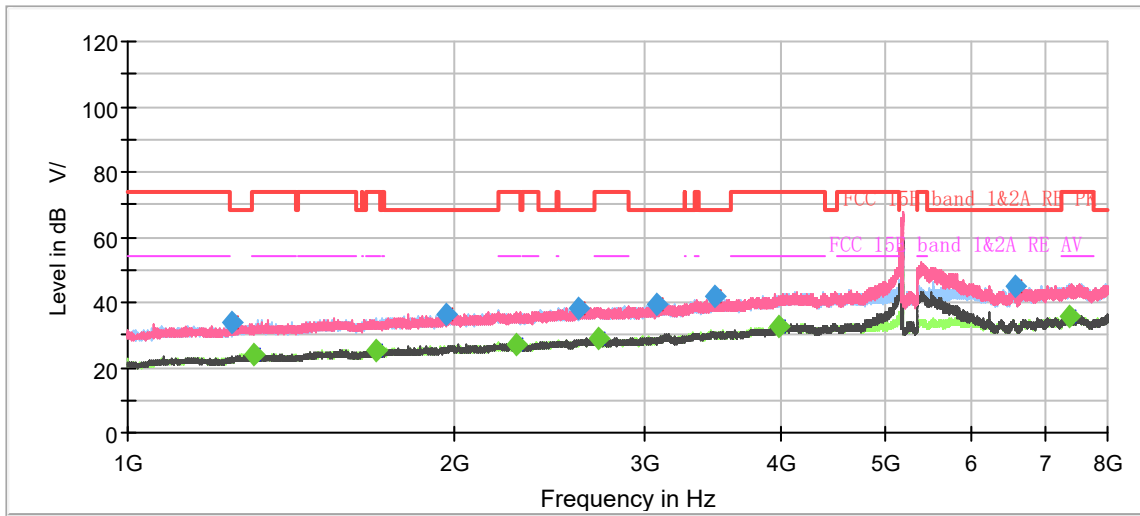
Radiates Emission from 8GHz to 18GHz



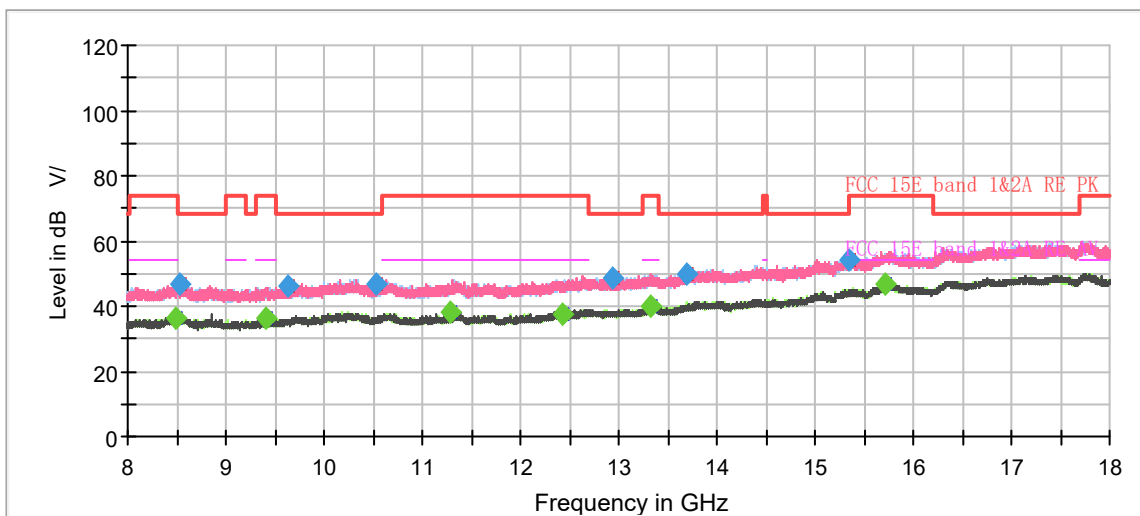
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1297.500000	33.52	---	68.20	34.68	200.0	V	171.0	-17.0
1391.066667	---	24.52	54.00	29.48	200.0	V	356.0	-16.4
1679.933333	---	26.21	54.00	27.79	200.0	H	278.0	-14.7
1990.733333	36.67	---	68.20	31.53	200.0	V	221.0	-13.0
2241.800000	---	27.34	54.00	26.66	200.0	V	264.0	-11.7
2609.066667	38.62	---	68.20	29.58	200.0	V	213.0	-9.8
2818.600000	---	29.24	54.00	24.76	100.0	V	155.0	-9.2
2992.200000	39.40	---	68.20	28.80	100.0	V	325.0	-8.5
3417.566667	40.88	---	68.20	27.32	100.0	H	325.0	-6.5
3858.333333	---	32.93	54.00	21.07	200.0	V	0.0	-4.6
6735.333333	45.69	---	68.20	22.51	200.0	V	127.0	0.3
7404.766667	---	35.93	54.00	18.07	100.0	V	29.0	1.4

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

802.11ax (HE20) CH36



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

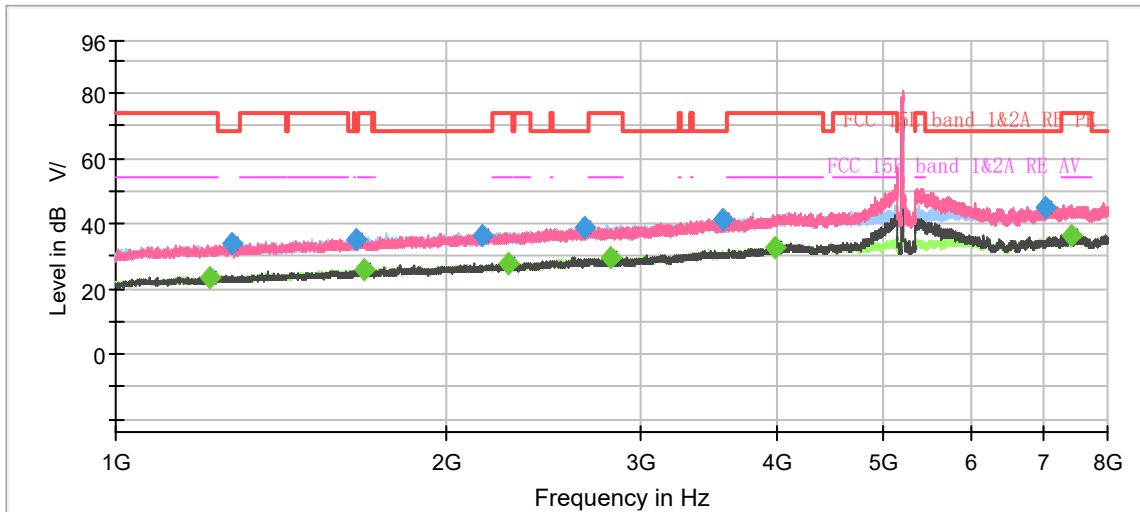


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1248.500000	33.83	---	68.20	34.37	200.0	H	321.0	-17.3
1306.133333	---	24.27	54.00	29.73	200.0	V	83.0	-17.0
1696.733333	---	25.41	54.00	28.59	100.0	V	17.0	-14.6
1969.500000	36.49	---	68.20	31.71	200.0	V	203.0	-13.1
2281.233333	---	27.15	54.00	26.85	100.0	H	336.0	-11.6
2598.566667	38.35	---	68.20	29.85	200.0	H	96.0	-9.9
2712.900000	---	28.96	54.00	25.04	200.0	V	161.0	-9.4
3077.133333	39.17	---	68.20	29.03	100.0	V	280.0	-7.9
3479.166667	41.59	---	68.20	26.61	200.0	V	154.0	-6.2
3987.600000	---	32.68	54.00	21.32	200.0	V	257.0	-3.8
6573.400000	44.91	---	68.20	23.29	100.0	H	64.0	0.2
7374.666667	---	35.83	54.00	18.17	200.0	V	278.0	1.3

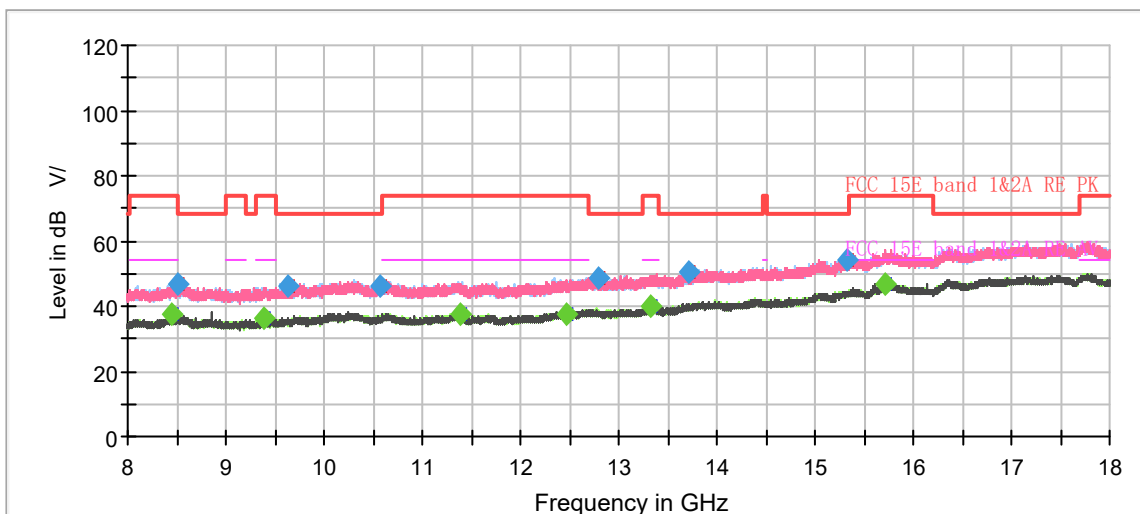
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



802.11ax (HE20) CH40



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



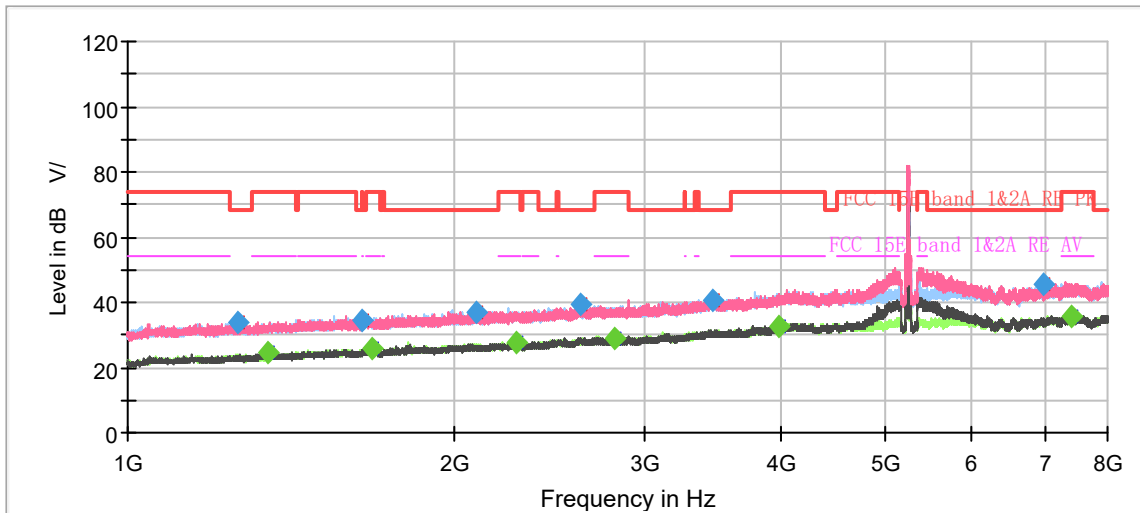
Radiates Emission from 8GHz to 18GHz



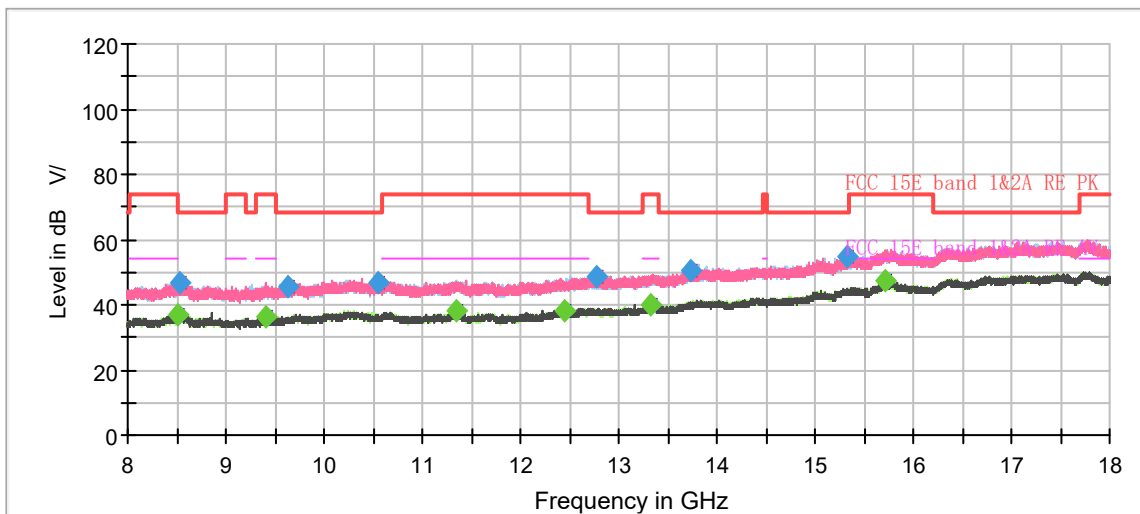
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1218.866667	---	23.23	54.00	30.77	200.0	V	159.0	-17.5
1276.966667	34.12	---	68.20	34.08	100.0	H	20.0	-17.1
1652.633333	35.29	---	68.20	32.91	100.0	H	133.0	-14.9
1682.033333	---	25.92	54.00	28.08	100.0	H	14.0	-14.7
2160.600000	36.33	---	68.20	31.87	100.0	H	202.0	-12.1
2282.400000	---	27.46	54.00	26.54	100.0	V	33.0	-11.6
2667.866667	38.59	---	68.20	29.61	200.0	H	226.0	-9.5
2818.133333	---	29.32	54.00	24.68	200.0	H	0.0	-9.2
3578.333333	41.16	---	68.20	27.04	200.0	V	280.0	-5.9
3985.033333	---	32.75	54.00	21.25	100.0	H	182.0	-3.8
7017.666667	44.98	---	68.20	23.22	100.0	V	286.0	0.7
7402.200000	---	36.56	54.00	17.44	100.0	V	343.0	1.4

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

802.11ax (HE20) CH48



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

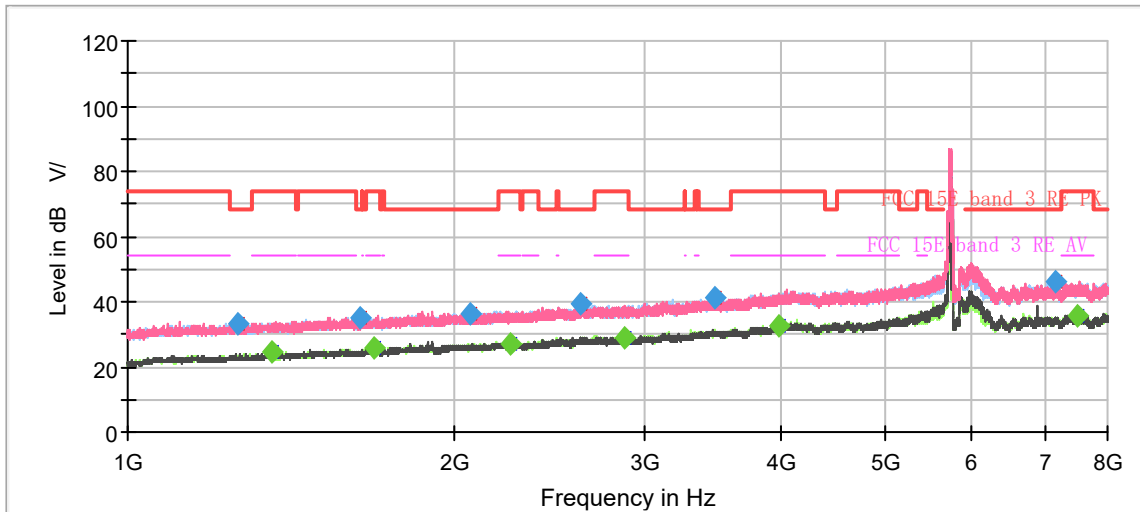


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1261.566667	34.06	---	68.20	34.14	200.0	H	256.0	-17.2
1346.733333	---	24.48	54.00	29.52	100.0	H	159.0	-16.7
1645.166667	34.53	---	68.20	33.67	100.0	H	49.0	-14.9
1682.266667	---	25.58	54.00	28.42	100.0	H	35.0	-14.7
2099.933333	36.80	---	68.20	31.40	200.0	H	277.0	-12.4
2282.866667	---	27.68	54.00	26.32	100.0	V	54.0	-11.6
2617.700000	39.13	---	68.20	29.07	100.0	H	1.0	-9.8
2806.933333	---	29.07	54.00	24.93	100.0	H	294.0	-9.2
3467.733333	40.92	---	68.20	27.28	100.0	H	35.0	-6.3
3975.000000	---	32.67	54.00	21.33	200.0	V	207.0	-3.9
6972.166667	45.32	---	68.20	22.88	100.0	H	49.0	0.6
7400.333333	---	35.92	54.00	18.08	100.0	H	1.0	1.4

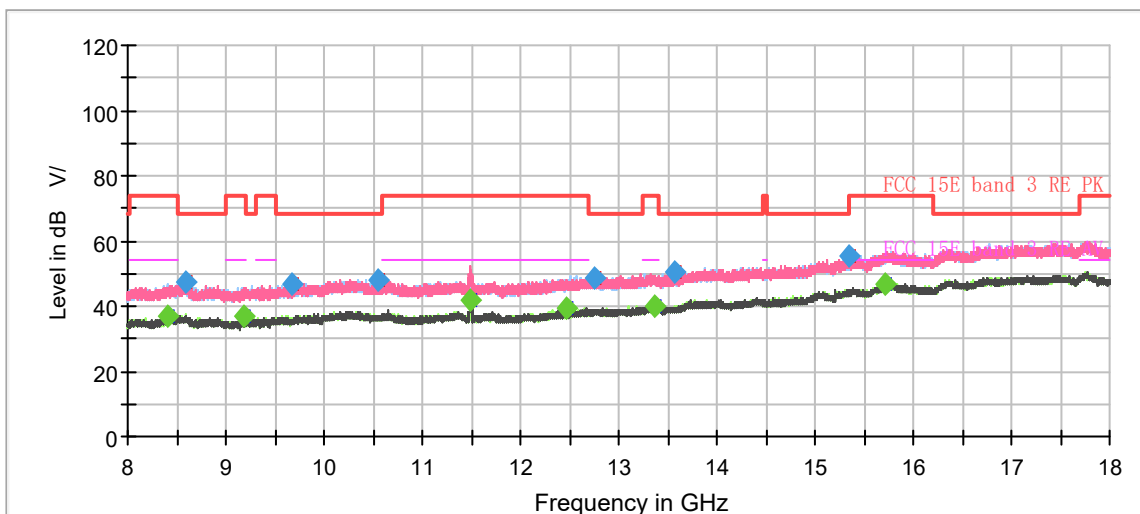
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11ax (HE20) CH149



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



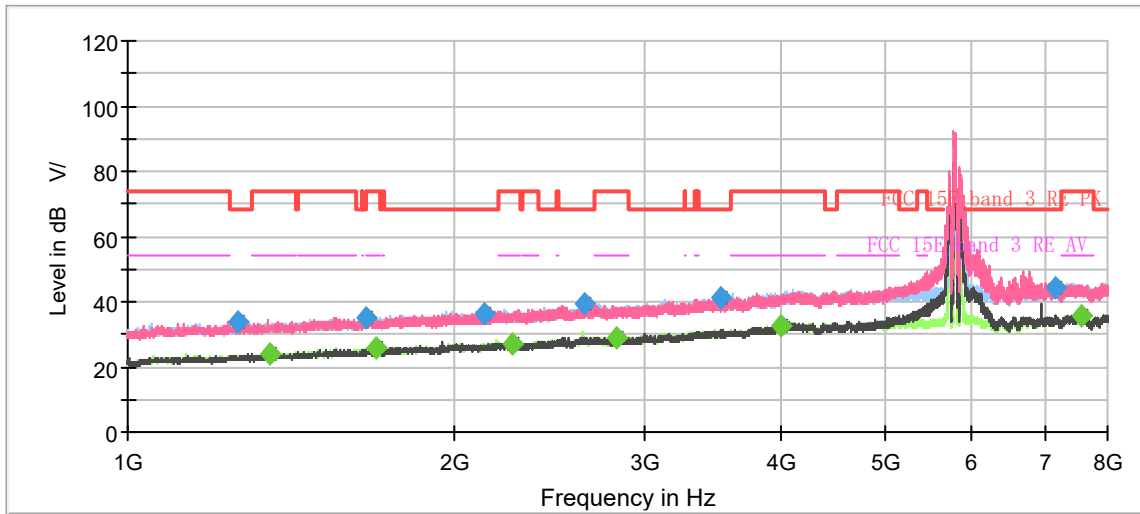
Radiates Emission from 8GHz to 18GHz



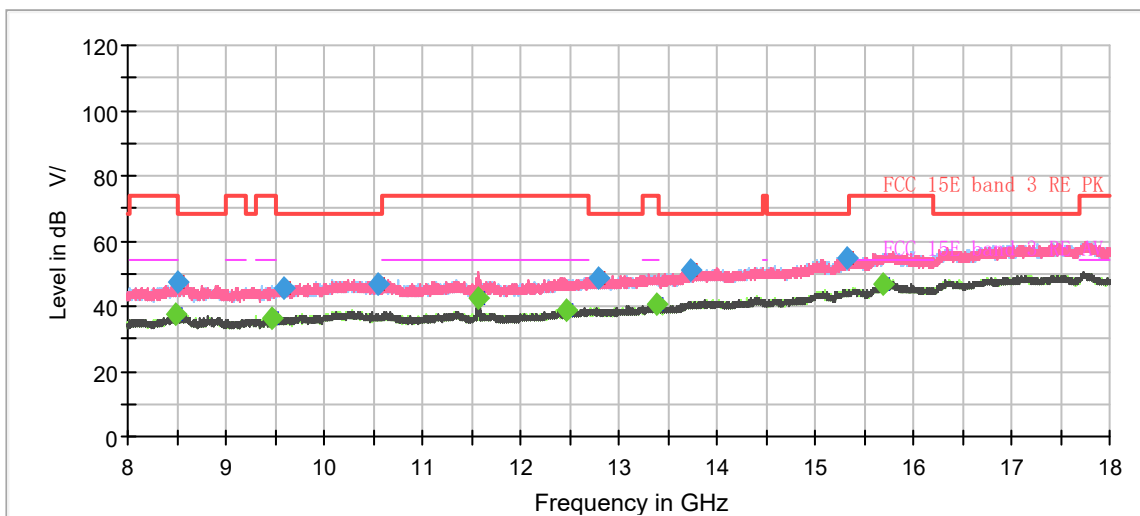
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1262.966667	33.25	---	68.20	34.95	200.0	V	3.0	-17.2
1357.933333	---	24.88	54.00	29.12	200.0	H	164.0	-16.6
1637.933333	34.94	---	68.20	33.26	100.0	V	161.0	-14.9
1688.800000	---	25.54	54.00	28.46	100.0	H	128.0	-14.7
2066.333333	36.16	---	68.20	32.04	100.0	V	152.0	-12.6
2249.733333	---	27.20	54.00	26.80	100.0	V	316.0	-11.7
2617.233333	39.14	---	68.20	29.06	100.0	H	308.0	-9.8
2871.333333	---	28.75	54.00	25.25	100.0	H	274.0	-9.1
3471.933333	41.00	---	68.20	27.20	200.0	V	156.0	-6.2
3981.300000	---	32.76	54.00	21.24	200.0	V	341.0	-3.9
7167.933333	46.07	---	68.20	22.13	200.0	V	121.0	1.0
7520.733333	---	35.93	54.00	18.07	200.0	H	54.0	1.3

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

## 802.11ax (HE20) CH157



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

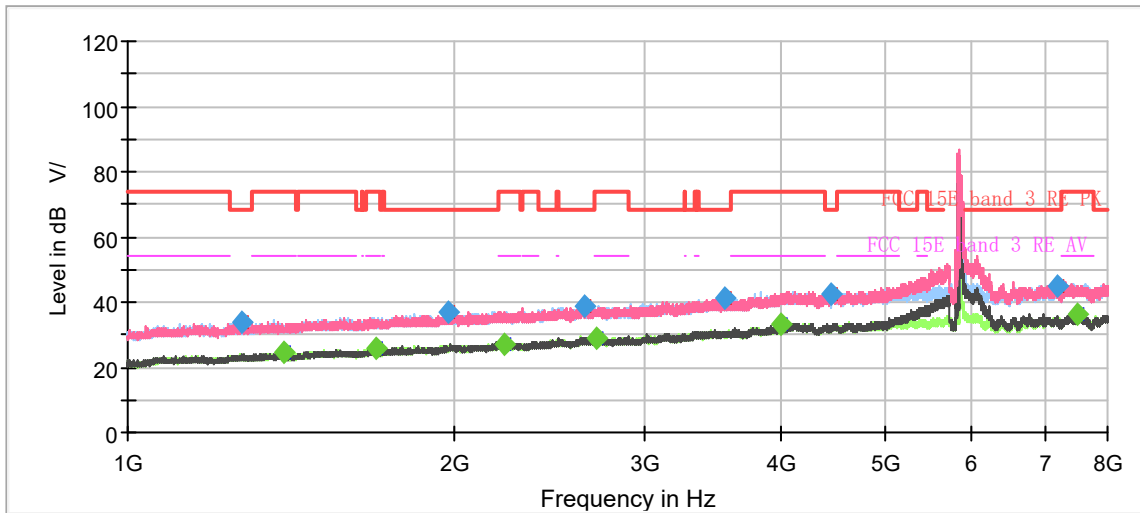


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1261.100000	34.10	---	68.20	34.10	100.0	H	4.0	-17.2
1352.800000	---	24.17	54.00	29.83	100.0	V	213.0	-16.7
1656.366667	35.11	---	68.20	33.09	100.0	H	0.0	-14.8
1697.433333	---	25.57	54.00	28.43	200.0	H	203.0	-14.6
2129.333333	36.55	---	68.20	31.65	200.0	V	4.0	-12.2
2263.033333	---	27.11	54.00	26.89	200.0	V	303.0	-11.6
2635.900000	39.09	---	68.20	29.11	200.0	V	216.0	-9.7
2822.100000	---	28.89	54.00	25.11	100.0	V	73.0	-9.2
3522.800000	41.50	---	68.20	26.70	100.0	H	239.0	-6.1
3992.733333	---	32.64	54.00	21.36	200.0	H	58.0	-3.8
7167.000000	44.49	---	68.20	23.71	200.0	V	336.0	1.0
7585.366667	---	35.72	54.00	18.28	100.0	H	36.0	1.3

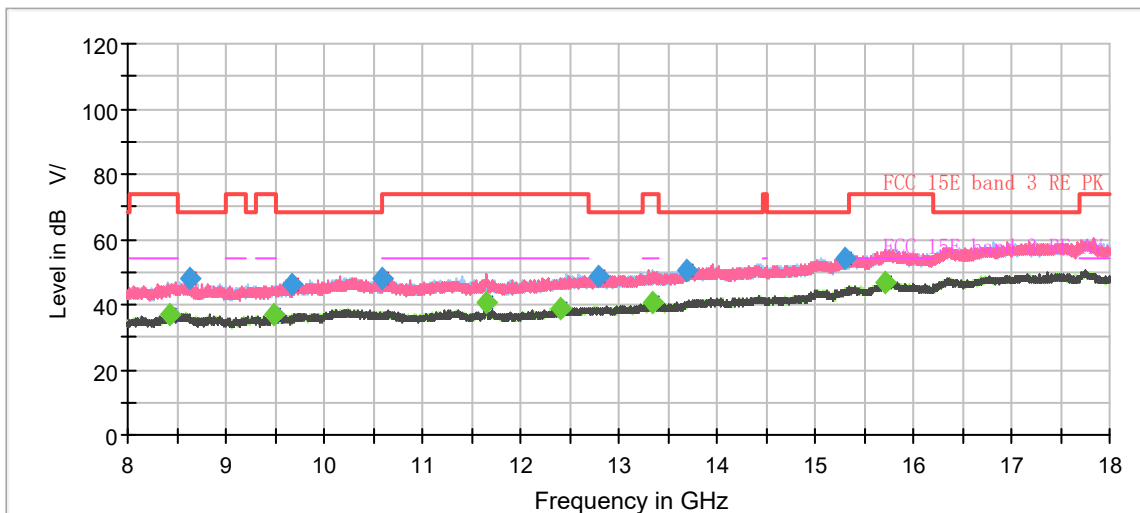
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11ax (HE20) CH165



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



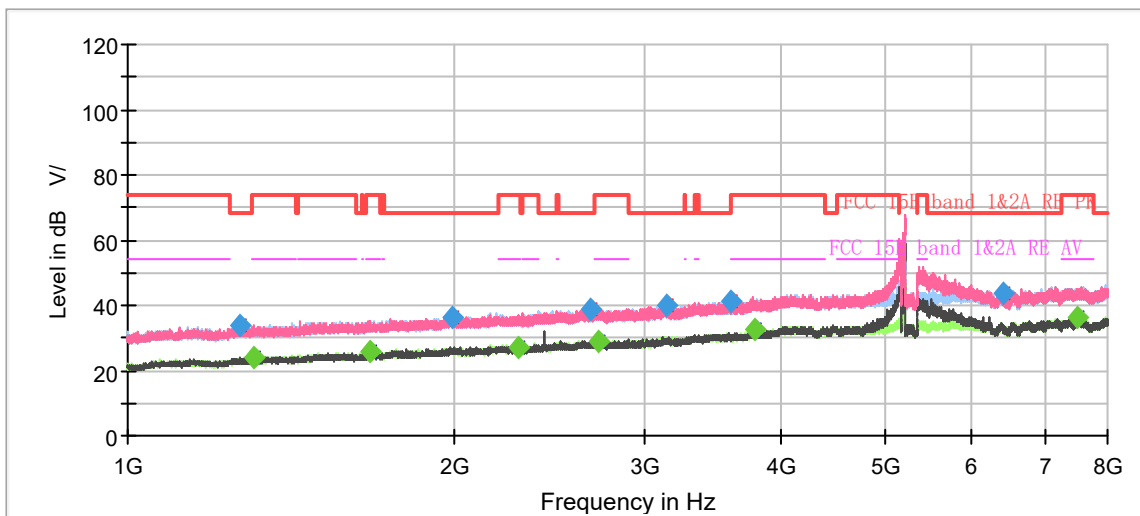
Radiates Emission from 8GHz to 18GHz



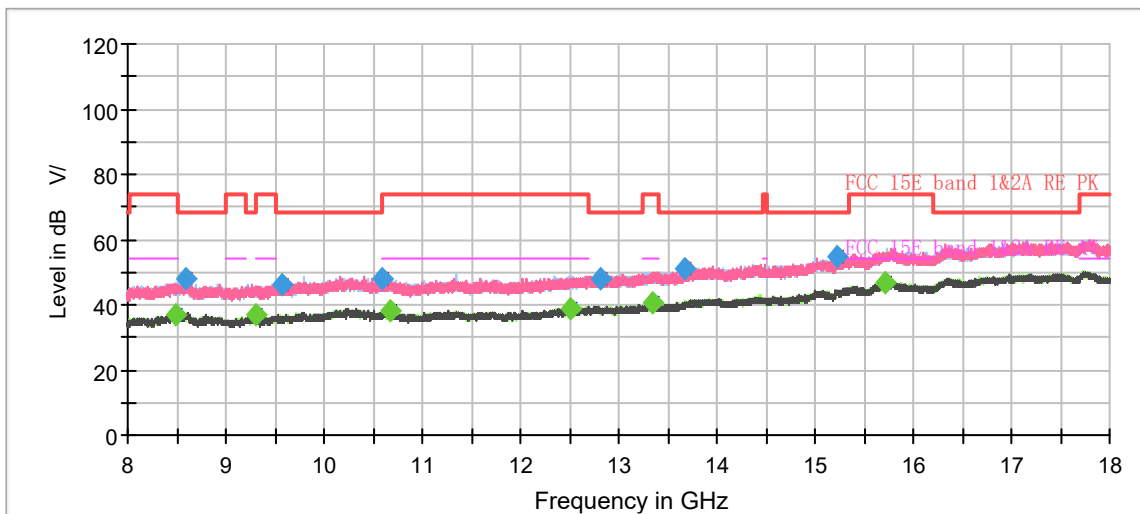
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1274.866667	33.86	---	68.20	34.34	200.0	V	0.0	-17.1
1395.033333	---	24.45	54.00	29.55	100.0	V	340.0	-16.3
1693.700000	---	25.57	54.00	28.43	100.0	H	96.0	-14.6
1975.566667	36.94	---	68.20	31.26	100.0	H	96.0	-13.1
2227.566667	---	27.19	54.00	26.81	200.0	H	356.0	-11.8
2637.533333	39.01	---	68.20	29.19	100.0	H	275.0	-9.7
2708.233333	---	28.94	54.00	25.06	100.0	V	265.0	-9.4
3551.966667	41.27	---	68.20	26.93	100.0	V	340.0	-6.0
3996.233333	---	33.21	54.00	20.79	100.0	V	256.0	-3.8
4454.266667	42.19	---	68.20	26.01	100.0	V	162.0	-3.1
7180.533333	44.91	---	68.20	23.29	200.0	H	210.0	1.0
7520.733333	---	36.28	54.00	17.72	200.0	H	347.0	1.3

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

## 802.11ax (HE40) CH38



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



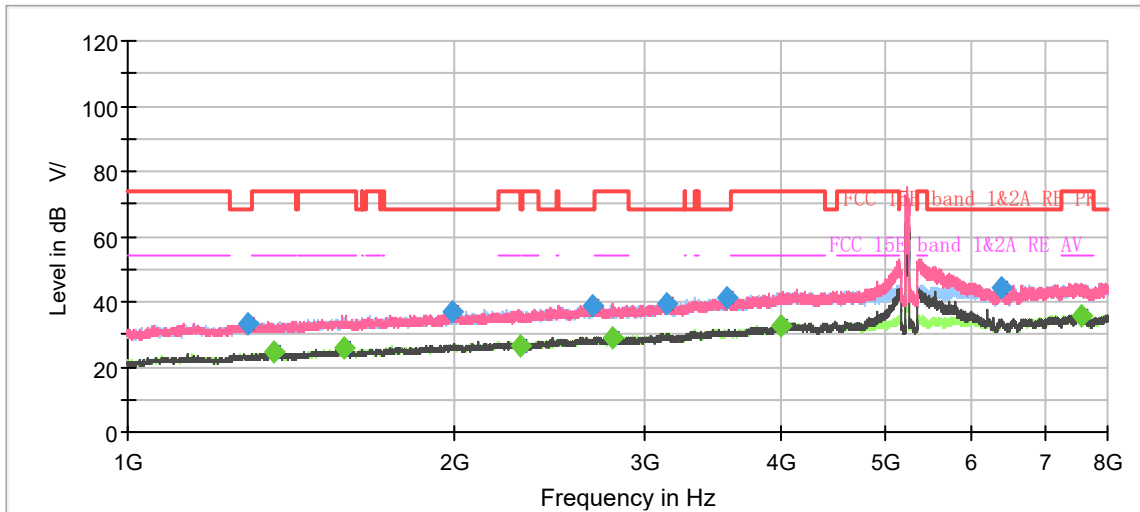
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1271.366667	33.99	---	68.20	34.21	200.0	H	320.0	-17.2
1307.066667	---	24.13	54.00	29.87	100.0	V	100.0	-16.9
1675.033333	---	25.65	54.00	28.35	100.0	V	113.0	-14.7
1994.700000	36.59	---	68.20	31.61	200.0	H	249.0	-13.0
2295.466667	---	27.02	54.00	26.98	200.0	H	0.0	-11.5
2672.766667	38.81	---	68.20	29.39	100.0	H	278.0	-9.5
2721.766667	---	29.21	54.00	24.79	200.0	H	123.0	-9.4
3142.933333	40.24	---	68.20	27.96	100.0	V	233.0	-7.7
3594.666667	41.00	---	68.20	27.20	100.0	V	143.0	-5.8
3784.833333	---	32.78	54.00	21.22	200.0	H	291.0	-5.0
6415.666667	43.74	---	68.20	24.46	100.0	H	272.0	0.2
7496.700000	---	36.02	54.00	17.98	200.0	H	256.0	1.3

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

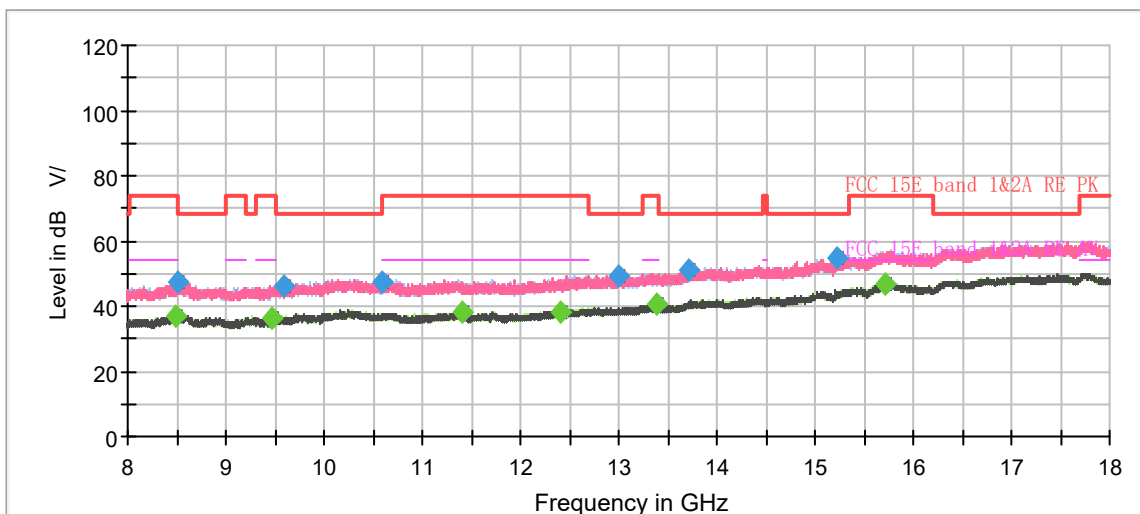




### 802.11ax (HE40) CH46



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



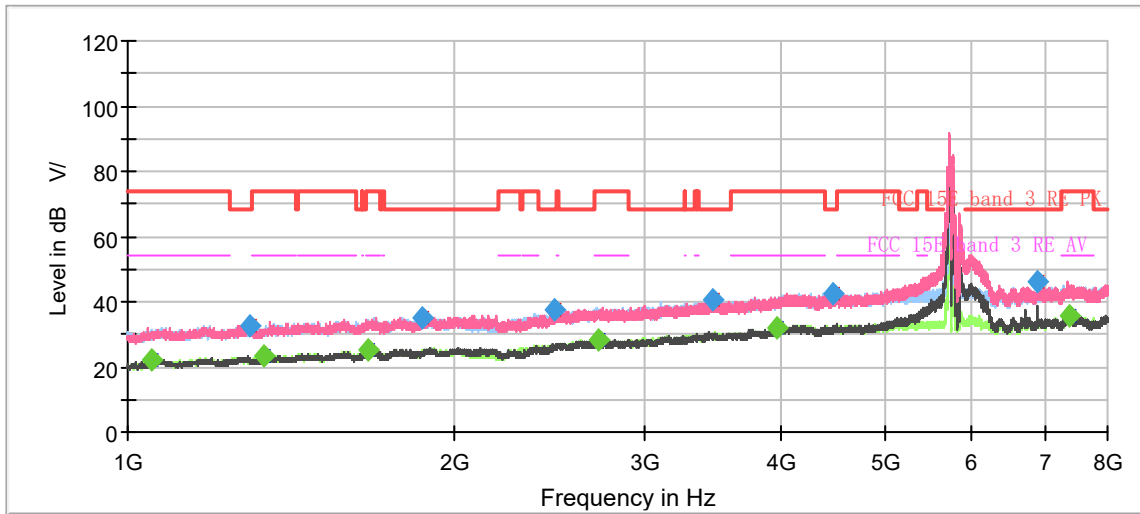
Radiates Emission from 8GHz to 18GHz



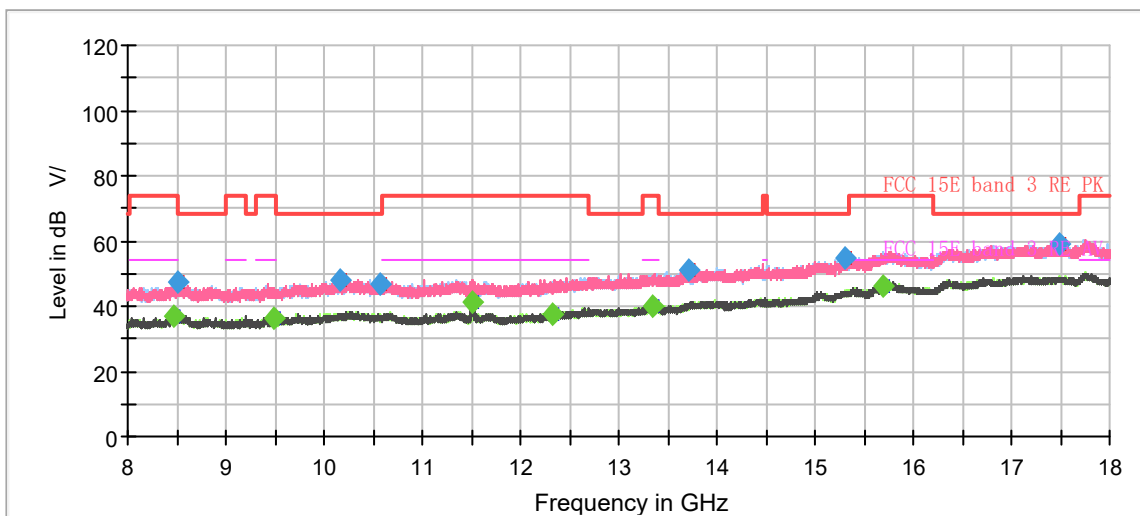
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1292.366667	33.24	---	68.20	34.96	200.0	H	38.0	-17.0
1364.933333	---	24.72	54.00	29.28	200.0	V	1.0	-16.6
1584.266667	---	25.66	54.00	28.34	200.0	H	110.0	-15.2
1991.900000	37.10	---	68.20	31.10	100.0	V	124.0	-13.0
2299.200000	---	26.68	54.00	27.32	100.0	H	344.0	-11.5
2684.666667	38.96	---	68.20	29.24	200.0	H	11.0	-9.5
2793.166667	---	29.06	54.00	24.94	200.0	V	229.0	-9.2
3141.533333	39.55	---	68.20	28.65	200.0	V	0.0	-7.7
3559.433333	41.13	---	68.20	27.07	200.0	V	276.0	-6.0
3991.566667	---	32.86	54.00	21.14	100.0	H	77.0	-3.8
6386.033333	44.22	---	68.20	23.98	200.0	H	0.0	0.2
7562.033333	---	35.94	54.00	18.06	200.0	H	38.0	1.3

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

## 802.11ax (HE40) CH151



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



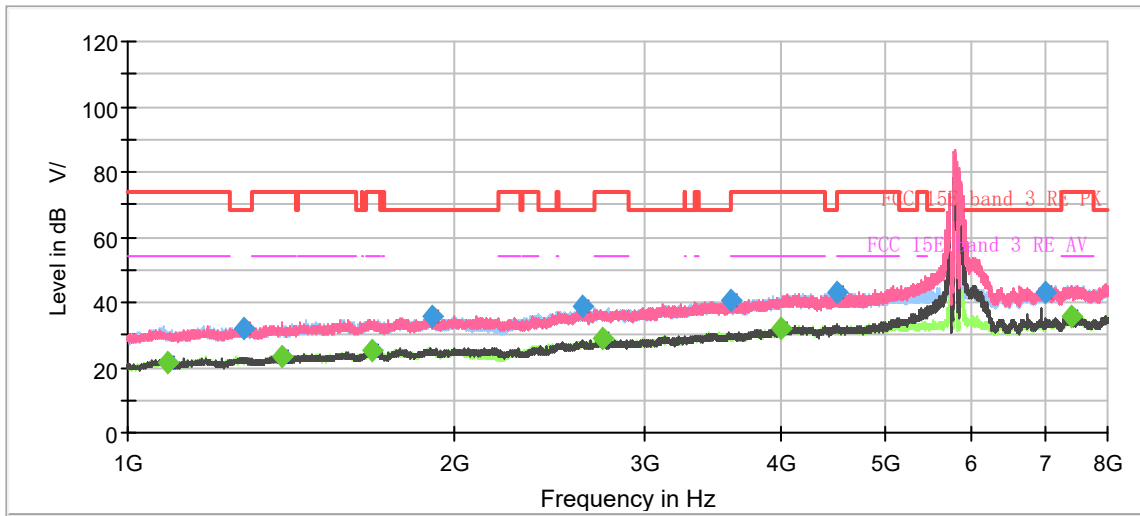
Radiates Emission from 8GHz to 18GHz



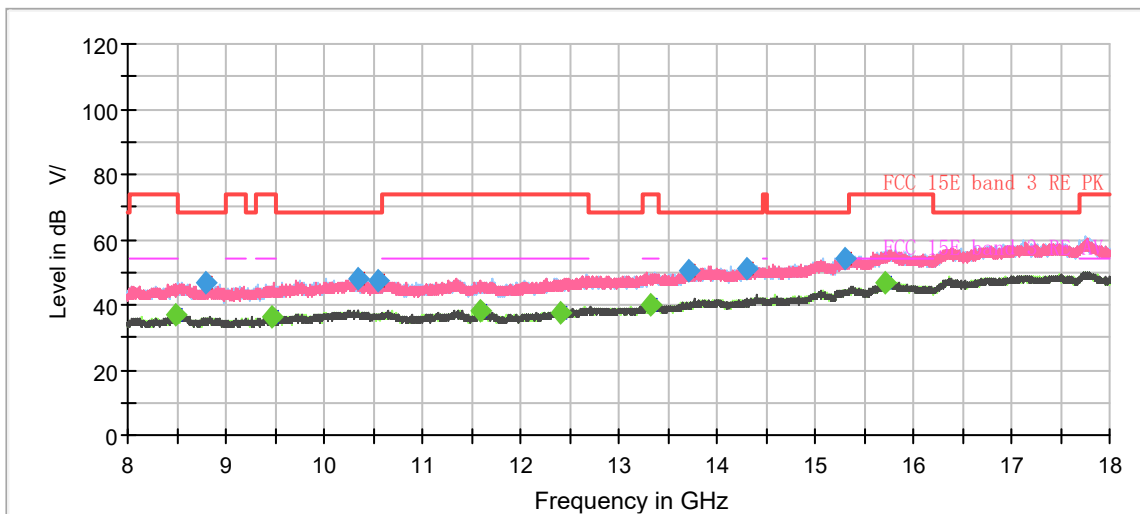
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1052.033333	---	21.94	54.00	32.06	200.0	H	221.0	-18.6
1297.033333	32.78	---	68.20	35.42	200.0	V	97.0	-17.0
1332.500000	---	23.31	54.00	30.69	200.0	H	288.0	-16.8
1668.966667	---	25.23	54.00	28.77	100.0	V	245.0	-14.8
1870.566667	35.29	---	68.20	32.91	100.0	H	136.0	-13.7
2470.000000	37.72	---	68.20	30.48	100.0	H	36.0	-10.6
2721.300000	---	28.47	54.00	25.53	200.0	H	153.0	-9.4
3467.266667	40.60	---	68.20	27.60	200.0	H	196.0	-6.3
3965.666667	---	31.94	54.00	22.06	100.0	H	11.0	-4.0
4459.866667	42.18	---	68.20	26.02	100.0	V	11.0	-3.1
6906.133333	45.88	---	68.20	22.32	200.0	V	157.0	0.5
7392.400000	---	35.67	54.00	18.33	200.0	V	64.0	1.4

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

802.11ax (HE40) CH159



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



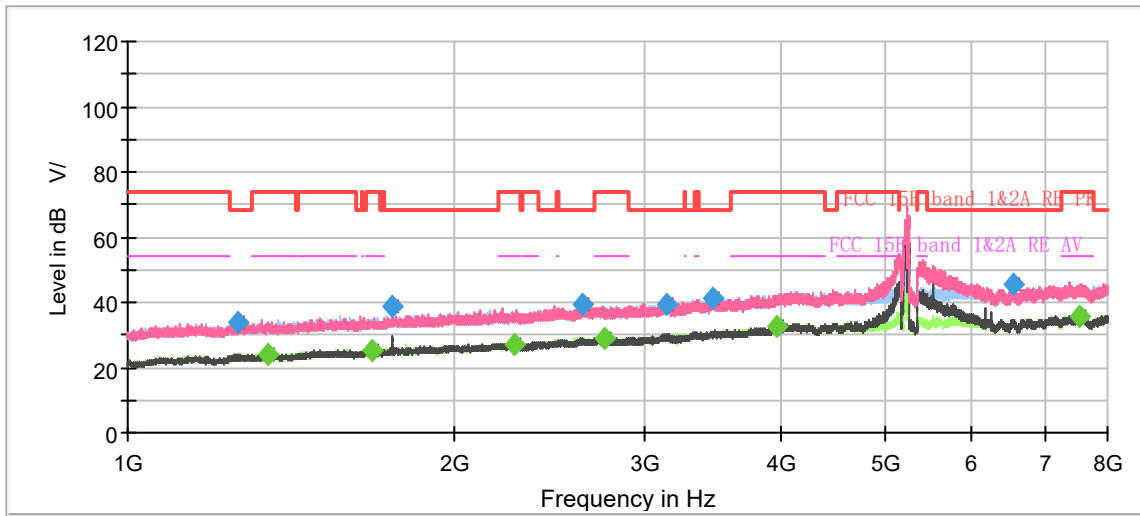
Radiates Emission from 8GHz to 18GHz



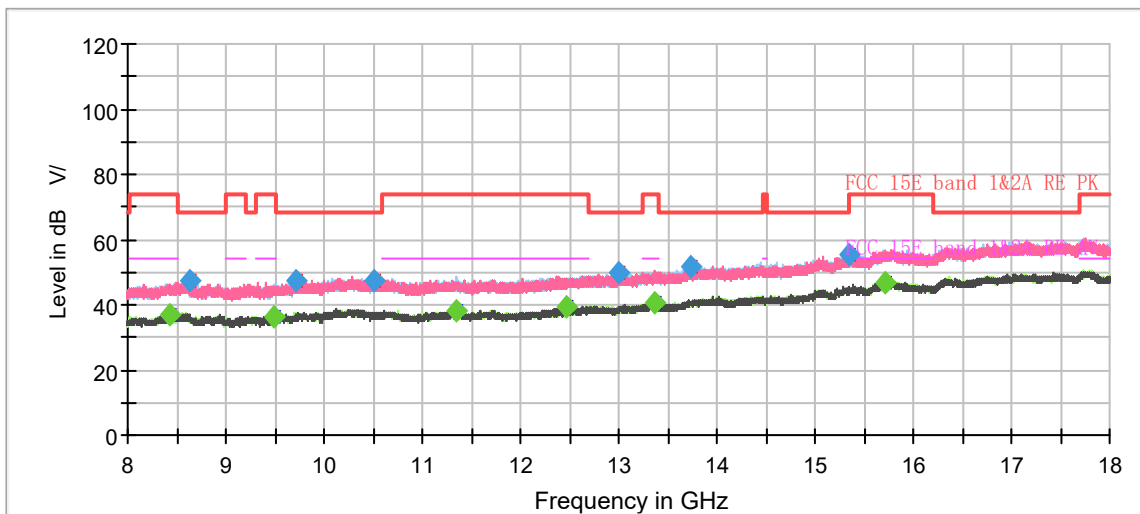
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1090.766667	---	21.66	54.00	32.34	200.0	H	255.0	-18.3
1278.833333	32.17	---	68.20	36.03	200.0	H	323.0	-17.1
1388.500000	---	23.57	54.00	30.43	100.0	H	173.0	-16.4
1678.066667	---	25.37	54.00	28.63	100.0	V	200.0	-14.7
1906.033333	35.96	---	68.20	32.24	100.0	H	130.0	-13.5
2622.366667	39.02	---	68.20	29.18	100.0	H	173.0	-9.7
2736.466667	---	28.63	54.00	25.37	100.0	H	4.0	-9.4
3589.066667	40.48	---	68.20	27.72	100.0	H	148.0	-5.8
3994.133333	---	32.17	54.00	21.83	100.0	V	0.0	-3.8
4502.566667	42.81	---	74.00	31.19	200.0	H	238.0	-3.0
7020.000000	43.14	---	68.20	25.06	200.0	H	137.0	0.7
7403.600000	---	35.46	54.00	18.54	200.0	H	180.0	1.4

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

802.11ax (HE80) CH42



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

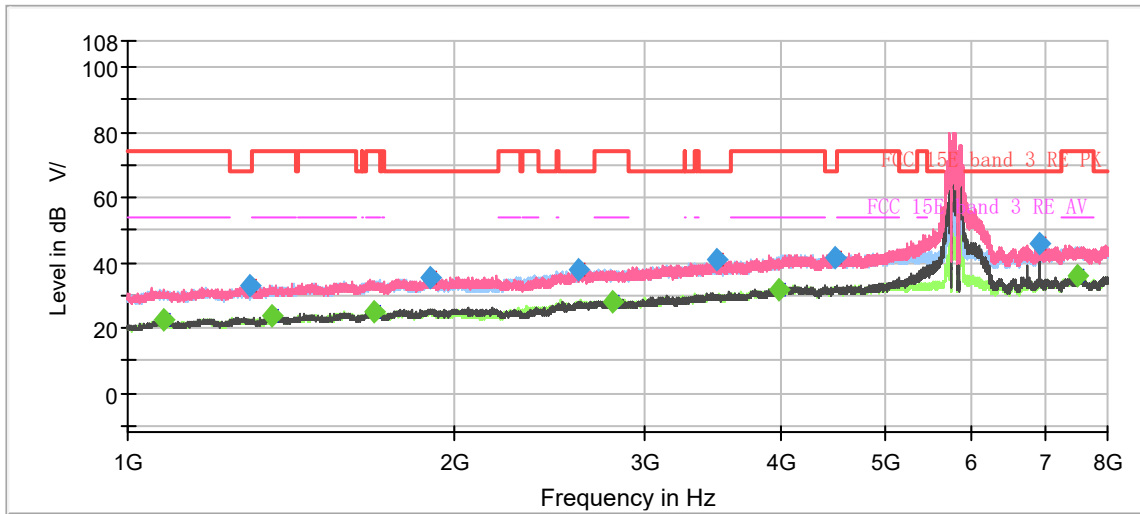


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1261.566667	34.08	---	68.20	34.12	200.0	H	18.0	-17.2
1347.666667	---	24.12	54.00	29.88	100.0	H	174.0	-16.7
1676.900000	---	25.48	54.00	28.52	100.0	H	5.0	-14.7
1754.833333	38.51	---	68.20	29.69	200.0	V	6.0	-14.3
2271.666667	---	27.07	54.00	26.93	200.0	V	319.0	-11.6
2625.166667	39.16	---	68.20	29.04	100.0	H	19.0	-9.7
2750.000000	---	29.07	54.00	24.93	200.0	V	230.0	-9.3
3135.466667	39.69	---	68.20	28.51	100.0	V	165.0	-7.7
3465.633333	41.23	---	68.20	26.97	200.0	V	20.0	-6.3
3963.333333	---	32.68	54.00	21.32	100.0	H	237.0	-4.0
6559.633333	45.32	---	68.20	22.88	100.0	H	209.0	0.2
7547.566667	---	35.99	54.00	18.01	100.0	V	241.0	1.3

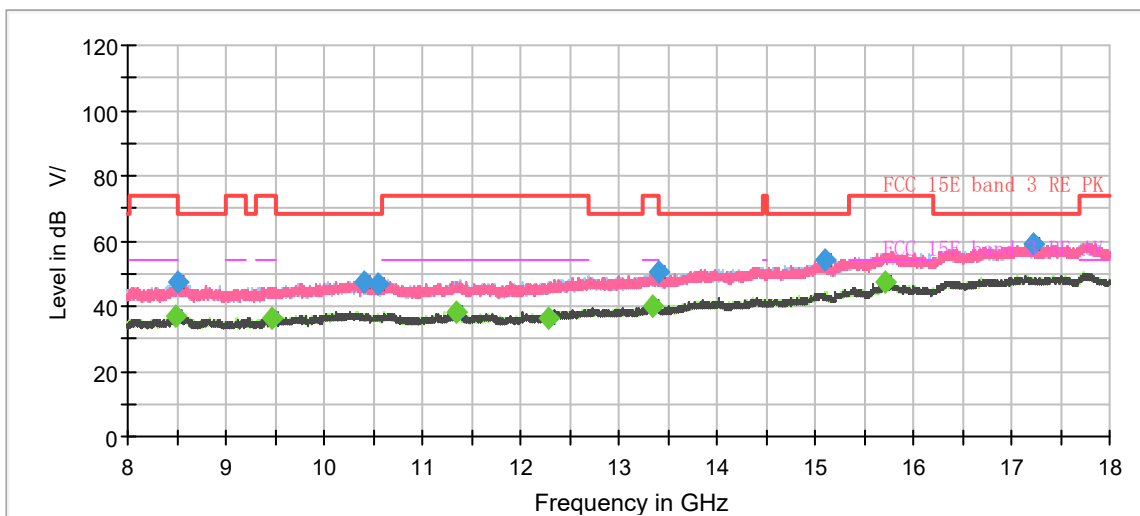
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



802.11ax (HE80) CH155



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

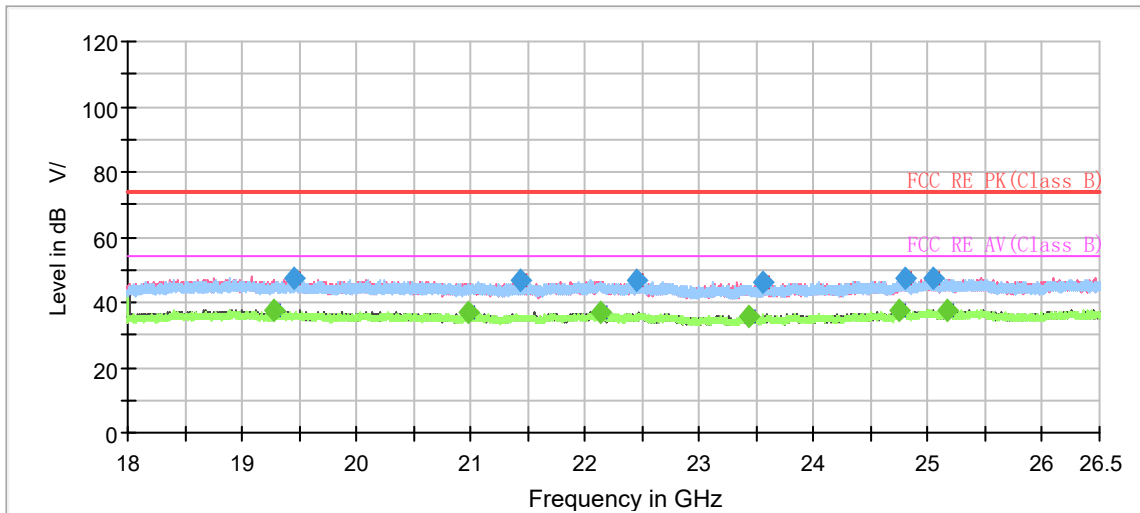


Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1078.866667	---	22.32	54.00	31.68	200.0	H	338.0	-18.4
1294.933333	32.73	---	68.20	35.47	100.0	V	0.0	-17.0
1357.000000	---	23.60	54.00	30.40	200.0	V	10.0	-16.6
1687.166667	---	25.07	54.00	28.93	200.0	H	82.0	-14.7
1904.166667	35.58	---	68.20	32.62	100.0	V	278.0	-13.5
2607.200000	38.01	---	68.20	30.19	100.0	H	136.0	-9.8
2795.033333	---	28.27	54.00	25.73	200.0	H	330.0	-9.2
3486.866667	40.62	---	68.20	27.58	200.0	V	102.0	-6.2
3978.266667	---	31.92	54.00	22.08	200.0	H	202.0	-3.9
4488.566667	41.69	---	68.20	26.51	200.0	H	288.0	-3.0
6929.466667	45.62	---	68.20	22.58	200.0	V	251.0	0.6
7508.600000	---	35.72	54.00	18.28	100.0	V	254.0	1.3

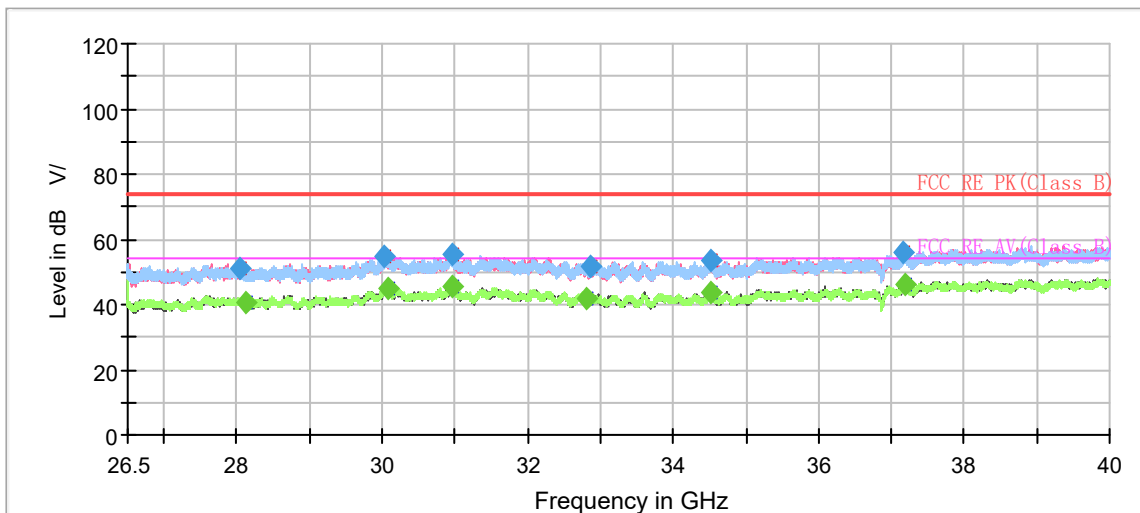
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



During the test, the Radiates Emission from 18GHz to 40GHz was performed in all modes with all channels, 802.11ac VHT20, Channel 40 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
19272.450000	---	37.51	54.00	16.49	200.0	V	344.0	-4.6
19460.300000	47.55	---	74.00	26.45	200.0	V	0.0	-4.6
20980.666667	---	36.74	54.00	17.26	200.0	V	194.0	-3.5
21428.050000	46.66	---	74.00	27.34	200.0	H	108.0	-3.3
22131.850000	---	36.88	54.00	17.12	200.0	H	16.0	-2.2
22457.966667	46.60	---	74.00	27.40	200.0	V	100.0	-2.1
23430.933333	---	35.64	54.00	18.36	100.0	V	0.0	-2.1
23562.400000	45.97	---	74.00	28.03	100.0	V	43.0	-1.9
24744.466667	---	37.37	54.00	16.63	200.0	H	168.0	-0.4
24799.716667	47.26	---	74.00	26.74	200.0	V	260.0	-0.4
25043.950000	47.59	---	74.00	26.41	100.0	V	239.0	-0.1
25162.666667	---	37.53	54.00	16.47	200.0	V	323.0	-0.1

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

### 5.6. Conducted Emission

#### Ambient condition

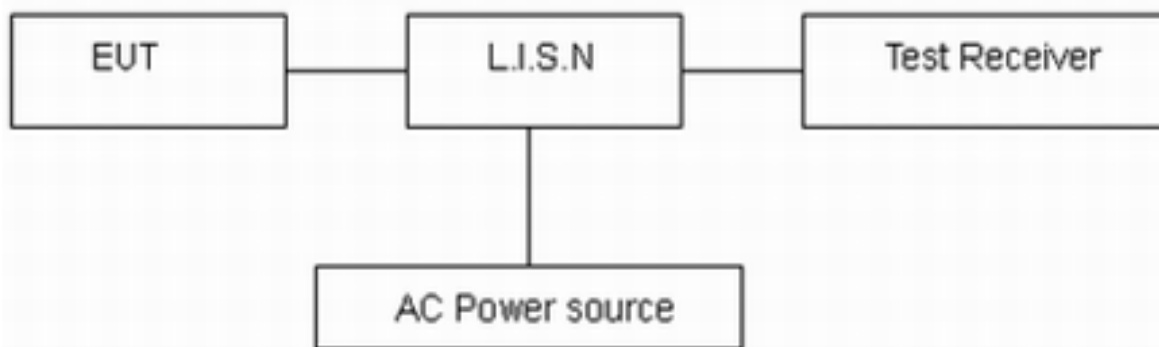
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

#### Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

#### Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

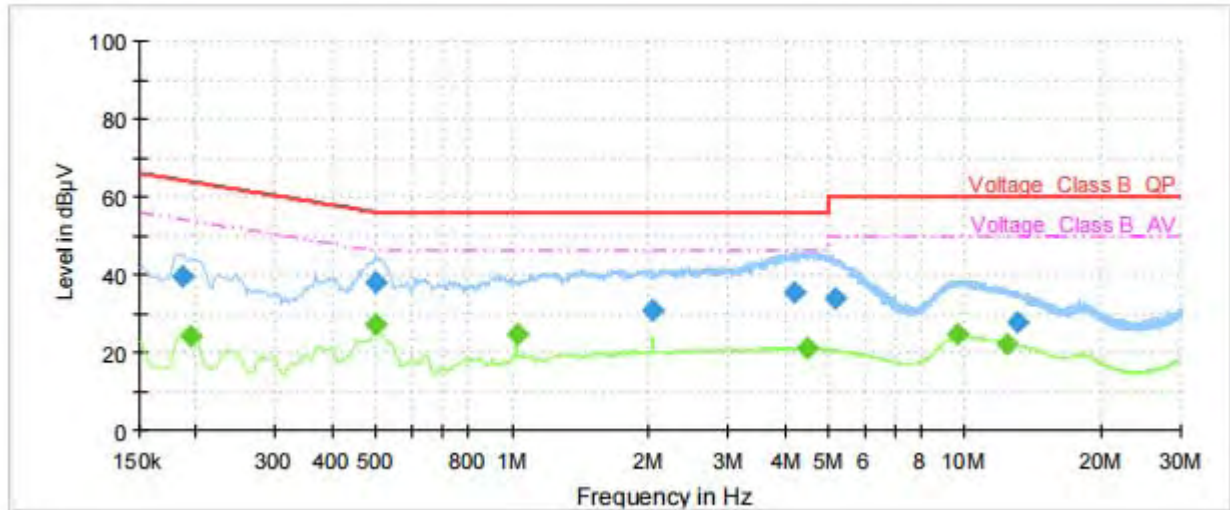
\*: Decreases with the logarithm of the frequency.

#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.

**Test Results:**

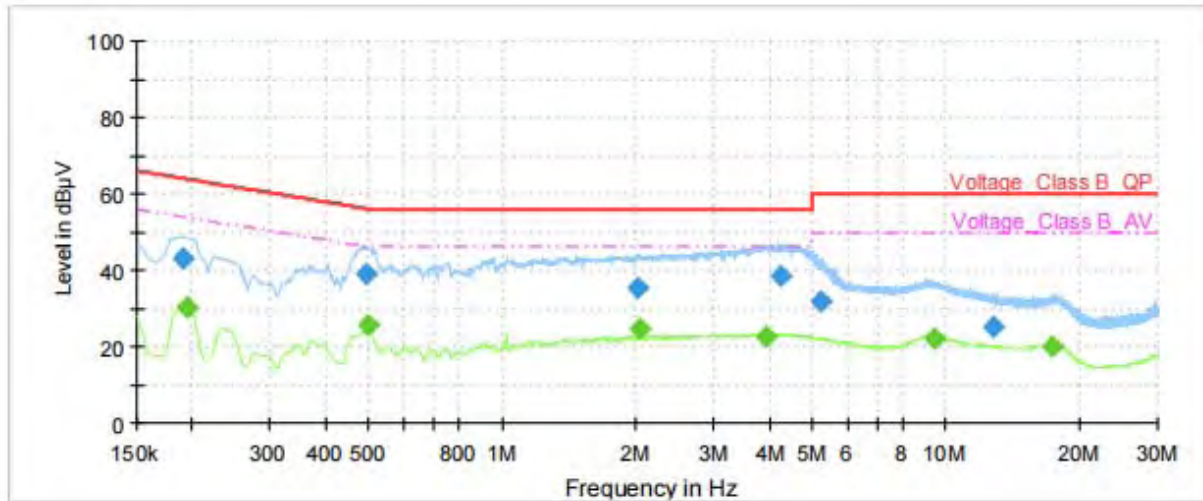
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11ac VHT20, Channel 40 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	39.31	---	64.21	24.90	70.0	9.000	L1	ON	21
0.20	---	24.16	53.82	29.66	70.0	9.000	L1	ON	21
0.50	---	26.95	46.00	19.05	70.0	9.000	L1	ON	20
0.50	37.89	---	56.00	18.11	70.0	9.000	L1	ON	20
1.02	---	24.84	46.00	21.16	70.0	9.000	L1	ON	20
2.04	30.66	---	56.00	25.34	70.0	9.000	L1	ON	20
4.21	35.40	---	56.00	20.60	70.0	9.000	L1	ON	19
4.46	---	20.86	46.00	25.14	70.0	9.000	L1	ON	19
5.18	34.06	---	60.00	25.94	70.0	9.000	L1	ON	19
9.61	---	24.66	50.00	25.34	70.0	9.000	L1	ON	20
12.43	---	22.28	50.00	27.72	70.0	9.000	L1	ON	20
13.05	27.55	---	60.00	32.45	70.0	9.000	L1	ON	20

**Remark: Correct factor=cable loss + LISN factor**

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	42.94	---	64.02	21.08	70.0	9.000	N	ON	21
0.20	---	30.40	53.82	23.42	70.0	9.000	N	ON	21
0.49	39.21	---	56.13	16.92	70.0	9.000	N	ON	20
0.50	---	25.50	46.00	20.50	70.0	9.000	N	ON	20
2.03	35.31	---	56.00	20.69	70.0	9.000	N	ON	20
2.04	---	24.46	46.00	21.54	70.0	9.000	N	ON	20
3.94	---	22.81	46.00	23.19	70.0	9.000	N	ON	19
4.27	38.70	---	56.00	17.30	70.0	9.000	N	ON	19
5.21	31.86	---	60.00	28.14	70.0	9.000	N	ON	19
9.45	---	22.19	50.00	27.81	70.0	9.000	N	ON	20
12.83	24.90	---	60.00	35.10	70.0	9.000	N	ON	20
17.46	---	19.78	50.00	30.22	70.0	9.000	N	ON	20

**Remark: Correct factor=cable loss + LISN factor**

N line Conducted Emission from 150 KHz to 30 MHz



## 6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV40	15195-01-00	2021-05-15	2022-05-14
EMI Test Receiver	R&S	ESCI	100948	2021-05-15	2022-05-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
Horn Antenna	R&S	HF907	102723	2018-08-11	2023-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2023-06-19
Standard Gain Horn	STEATITE	QSH-SL-26-40 -K-15	16779	2019-12-24	2022-12-23
Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2018-07-07	2023-07-06
EMI Test Receiver	R&S	ESR	101667	2021-05-16	2022-05-15
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2020-12-13	2021-12-12
RF Cable	Agilent	SMA 15cm	0001	2021-06-09	2021-12-08
TEMPERATURE CHAMBER	WEISS	VT4002	582261194500 10	2020-12-13	2021-12-12
Power Sensor	R&S	NRP18S	101955	2021-05-15	2022-05-14
DC Power Supply	GWINSTEK	GPS-3030D	GEP882653	2021-05-15	2022-05-14
Software	R&S	EMC32	9.26.0	/	/

\*\*\*\*\*END OF REPORT \*\*\*\*\*





## ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



## ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.